

# JVC

## SERVICE MANUAL

### STEREO RADIO CASSETTE RECORDER

### RC-N5 A/B/E/G/U



**NEW, Mechanism**

## Contents

	Page		Page
1 Safety Precautions . . . . .	2	9 Standard Schematic Diagram . . . . .	14
2 Specifications . . . . .	3	10 Location of P.C. Board Parts and Parts List . . . . .	18
3 Location of Controls and Their Functions . . . . .	4	11 Exploded View of Mechanism Assembly . . . . .	22
4 Removal Procedure of Main Parts . . . . .	5	Mechanism Component Parts List . . . . .	22
5 How to Engage Dial Cord . . . . .	7	12 Exploded View of Enclosure Assembly . . . . .	24
6 Main Adjustments . . . . .	8	Enclosure Assembly Parts List . . . . .	25
7 Block Diagram . . . . .	12	13 Packing . . . . .	27
8 Wiring Connections . . . . .	13	14 Accessories . . . . .	Back cover

# 1 Safety Precautions

1. The design of this product contains special hardware. Many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Service should be performed by qualified personnel only.
2. Alterations of the design or circuitry of the product should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacturer of responsibility for personal injury or property damage resulting therefrom.
3. Many electrical and mechanical parts in the product have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the parts list of Service manual. Electrical components having such features are identified by ( $\triangle$ ) on the schematics and parts list in Service manual. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement part shown in the parts list in Service manual may create shock, fire, or other hazards.
4. The leads in the products are routed and dressed with ties, clamps, tubings barriers and/or the like to be separated from live parts, high temperature part, moving parts and/or sharp edges for the prevention of electric shock and fire hazard. When service is required, the original lead routing and dress should be observed, and they should be confirmed to be returned to normal, after re-assembling.

## 5. Leakage current check

(Safety for electrical shock hazard)

After re-assembling the product, always perform an isolation check on the exposed metal parts of the Products (antenna terminals, knobs, metal cabinet, screw heads, earphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock.

Do not use a line isolation transformer during this check.

- Plug the AC line cord directly into the AC outlet. Using a "Leakage Current Tester", measure the leakage current from each exposed metal part of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground (water pipe, etc.). Any leakage current must not exceed 0.5 mA AC (r.m.s.).

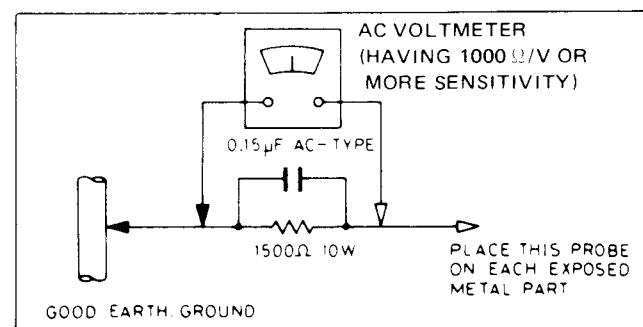
### • Alternate check method.

Plug the AC line cord directly into the AC outlet. Use an AC voltmeter having 1,000 ohms per volt or more sensitivity in the following manner. Connect a  $1500 \Omega$  10 W resistor paralleled by a  $0.15 \mu\text{F}$  AC-type capacitor between an exposed metal part and a known good earth ground (water pipe, etc.).

Measure the AC voltage across the resistor with the AC voltmeter.

Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Any voltage measured must not exceed 0.75 V AC (r.m.s.).

This corresponds to 0.5 mA AC (r.m.s.).



## 2 Specifications

Speakers : 8 cm x 2

### Tuner section

Frequency ranges : FM 88 – 108 MHz  
 MW (AM) 530 – 1620 kHz (RC-N5A/B/E/G)  
 AM 530 – 1602 kHz (RC-N5U)  
 LW 150 – 350 kHz (RC-N5B/E/G)  
 SW 6 – 18 kHz (RC-N5A/U)

Antennas : Telescopic antenna for FM & SW  
 Ferrite core antenna for MW & LW

### Tape recorder section

Track system : 4-track 2-channel stereo  
 Frequency response: 100 – 12,000 Hz  
 Wow & flutter : 0.15% (WRMS)  
 Fast wind time : Approx. 150 sec. (C-60 cassette)

### Amplifier section

Power output : Max. 2.8 W (1.4 W + 1.4 W) at 8  $\Omega$   
 2.4 W (1.2 W + 1.2 W) at 10% THD  
 Input jack : Mic x 1, 0.7 mW (-62 dBV),  
 200  $\Omega$  ~ 2 k $\Omega$   
 Output jack : Headphone x 1 (22 mW/32  $\Omega$ , 8 ~ 32  $\Omega$ )  
 Power supply : DC 9 V (6 "R6" batteries)  
 AC 220 – 240 V/110 – 120 V, 50/60 Hz (RC-N5A/B/E/G)  
 AC 220 – 240 V/110 – 127 V (RC-N5U)

Power consumption: 9 W

### Dimensions

Open : 450 (W) x 165 (H) x 77 (D) mm  
 Closed : 300 (W) x 165 (H) x 77 (D) mm  
 Weight : Approx. 1.8 kg (without batteries)

Design and specifications are subject to change without notice.

### 3 Location of Controls and Their Functions

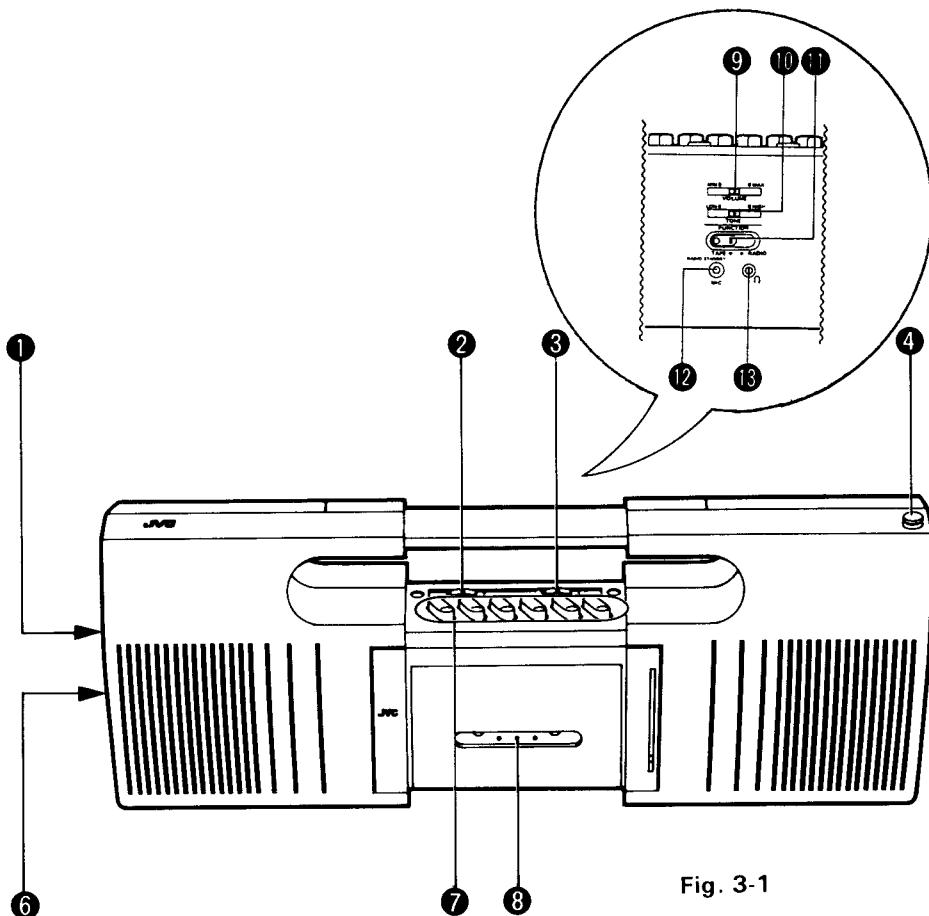


Fig. 3-1

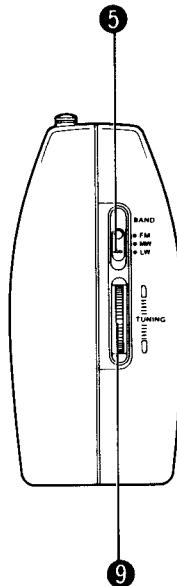


Fig. 3-2

- ① AC IN jack
- ② BEAT CUT switch
- ③ MODE switch
- ④ Telescopic antenna
- ⑤ BAND switch (FM/MW/LW)
- ⑥ Voltage selector
- ⑦ Cassette operation buttons
- ⑧ PAUSE button
- ⑨ STOP/EJECT button
- ⑩ FF button
- ⑪ REW button
- ⑫ PLAY button
- ⑬ REC button
- ⑭ Cassette holder
- ⑮ TUNING knob
- ⑯ VOLUME control
- ⑰ TONE control
- ⑱ FUNCTION switch
- ⑲ MIC jack (monaural)
- ⑳ Headphone jack (Q)

#### ② BEAT CUT switch

Usually set it to "NORM 1" position.

Beat sound which may occur while recording MW or LW broadcasts can be eliminated by changing the position of this switch.

#### ③ MODE switch

**STEREO:** Set to this position when listening to stereo sources such as FM stereo broadcast or music cassettes.

Also used when listening to monaural sources such as MW or LW broadcast etc., or when listening to binaural playback through headphones.

**BIPHONIC/WIDE:** Set to this position when listening widely enhanced stereo sources or binaural tapes through the built-in speakers.

**Note:** Any setting other than the above will result in unnatural sound localization.

#### ⑦ PAUSE button

Use this button to stop temporarily the tape during playback or recording. With both the PAUSE and REC buttons pressed beforehand, release the PAUSE button at the desired spot for exact (timing) recording.

#### ⑯ FUNCTION switch

**RADIO:** This position should be used when listening to the radio or when recording from the radio.

**TAPE/RADIO STANDBY:** When playing cassette, when recording using external microphone or when switching off the radio, switch to this position.

## 4 Removal Procedure of Main Parts

### ■ Cabinet Ass'y Section

#### ■ Cabinet

- 1) Remove 12 screws ① and ② securing the cabinet.
- 2) Turn over the set and extend the speaker sections to right and left. Then, remove the front cover together with the band switch and tuning knob.
- 3) After the above procedures, the tuner section can be removed.

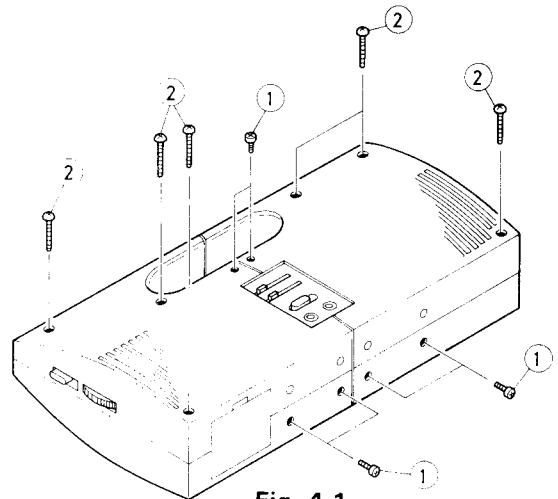


Fig. 4-1

#### ■ Tuner chassis

- 1) Remove a screw ③ fixing the tuner board to the cabinet.
- 2) Push the tuner chassis in the direction of the center of the set, and disengage the two pawls located near the pointer.
- Note:** When removing the tuner board assembly entirely, remove a screw ③, too.
- 3) In the above state, the right speaker can be removed.

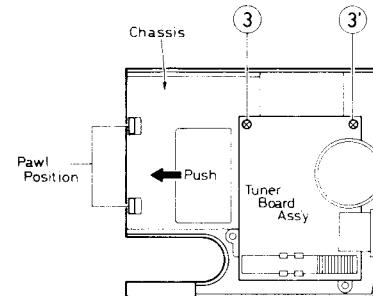


Fig. 4-2

#### ■ Power supply board

- 1) Pull the power supply board out of the cabinet.

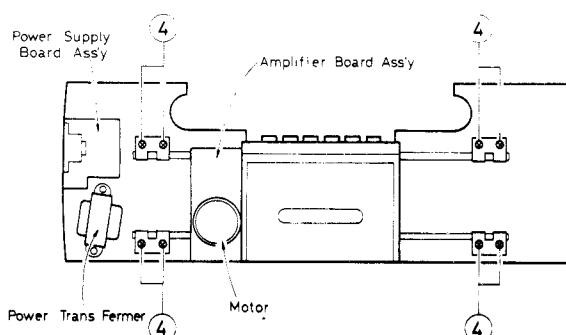


Fig. 4-3

#### ■ Center cabinet

- 1) Remove four screws securing the cabinet from the top and bottom sides.  
\* The above procedure must be done from the bottom side first.
- 2) Remove two screws securing the amplifier board.
- 3) To remove the mechanism assembly, remove the screws securing it at the four corners, and open the cassette door before doing it.

## Mechanism Section

### Removal of Mechanism Parts

1. REC/PB head  
Remove a screw ① securing it at right side.  
Pull the head rightward to remove it.
2. Erase head  
Disengage the stopper's pawl Ⓐ of the erase head arm.
3. Disengage the stopper's pawl Ⓑ of the pinch roller arm.
4. The disk is built in with pressure, but it can be removed by pulling out.
5. Flywheel assembly  
1) Remove the main belt first.  
2) Remove the C-washer Ⓒ securing the capstan shaft.  
3) Pull the flywheel assembly outward (after disengaging the RF belt).
6. Remove the button assembly from the mechanism chassis.

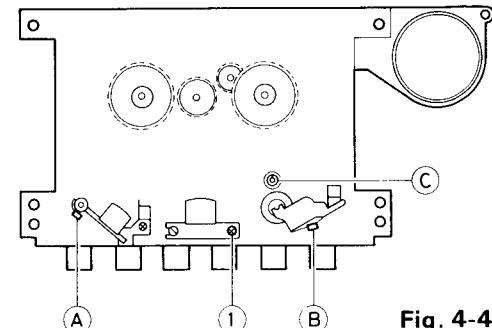


Fig. 4-4

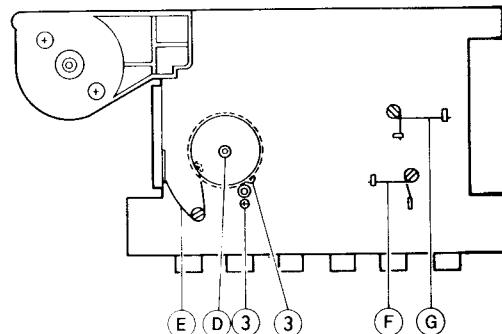


Fig. 4-5

#### ■ Leaf switch

Disengage the pawl by pressing its left side, and raise the switch from left side to remove it.

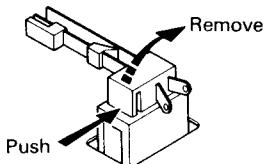
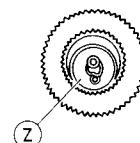


Fig. 4-6

#### ■ Gear assembly (on the bottom of the flywheel)

Remove the C-washer Ⓓ securing the gear.  
(When re-assembling, make sure to insert an arm stud into the portion ⑦.)

Fig. 4-7



#### ■ Lock arm

Push the arm's stopper from the window ⑩ and pull it to this side to remove it.

#### ■ Chassis

- 1) Disengage the springs at the three points of Ⓔ, Ⓕ, and Ⓖ.
- 2) Remove two screws ②.
- 3) Remove two screws ③ securing the capstan metal section.
- 4) Gently remove the button assembly from the chassis.

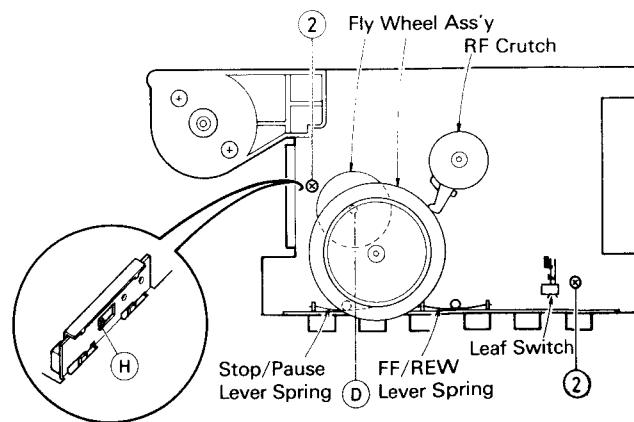


Fig. 4-8

## 5 How to Engage Dial Cord

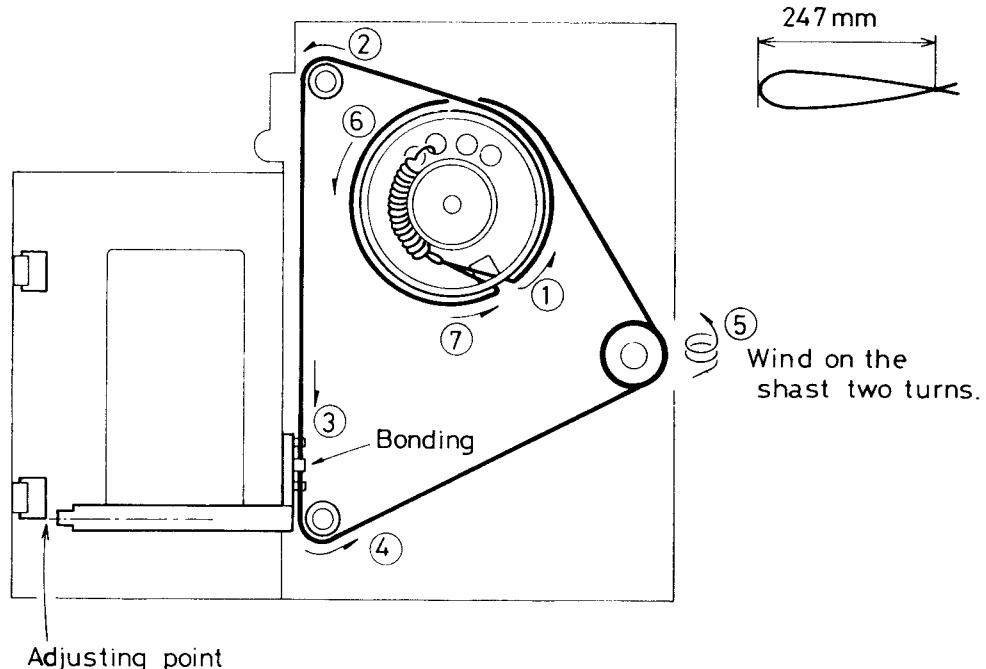


Fig. 5-1

1. Turn the dial drum fully counterclockwise to the position of the stopper on the chassis (to the minimum frequency position).
2. Use cable of 494 mm (VHR2TK9-05AT) to employ the dial cord.

### Installation of Pointer

1. Turn the tuning shaft (knob) counterclockwise to its minimum frequency position.
2. Fit the pointer on the cord by setting it for the hole on the chassis.

## 6 Main Adjustments

### Conditions

Power supply : DC 9 V (Tuner Input 5 V)  
 Load : 50 mW (0.63 V/8 Ω)  
 Function switch : TAPE  
 Tone : Maximum position

Specified input : MIC -60 dBs  
 Measuring point (output) : Speaker terminal  
 Modulation of SSG : 400 Hz, 30% at AM  
 400 Hz, 22.5 kHz at FM

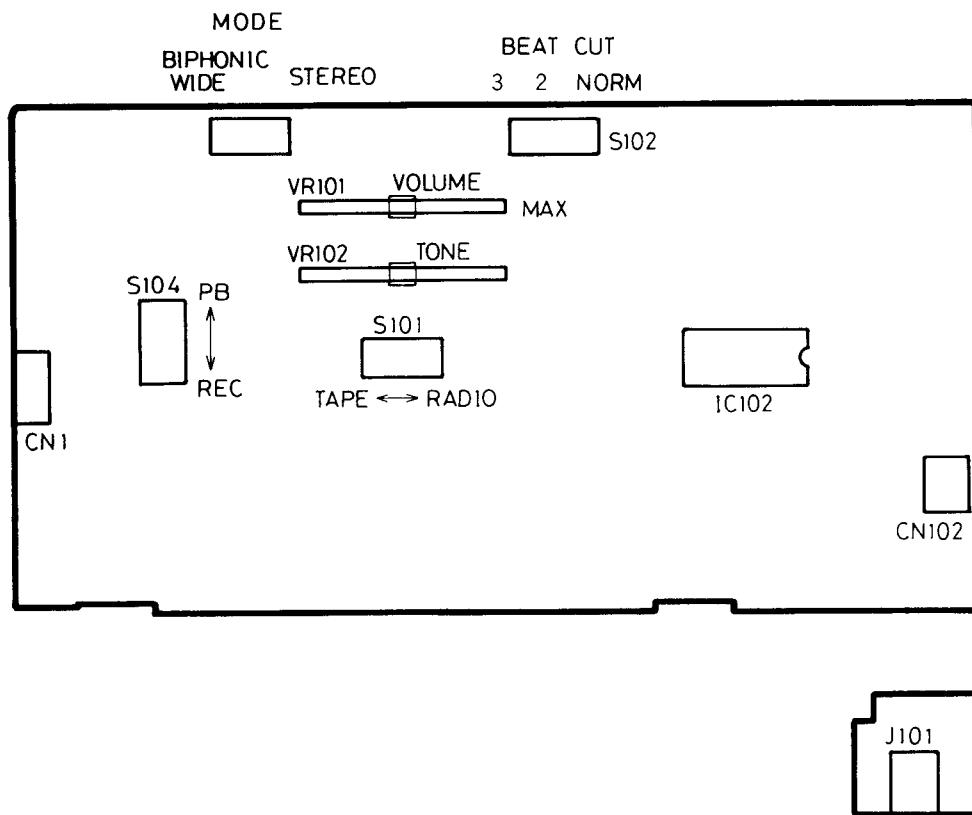


Fig. 6-1

Item	Tape to be used	Procedure	Adjusting Point
Azimuth	VTT702 (8 kHz)	With the maximum output	R/P head azimuth screw
Tape speed and Wow & flutter	VTT712 (3 kHz)	Adjust semi-fixed resistor inside the motor so that the counter reads $3010 \text{ Hz} \pm 15 \text{ Hz}$ . Make sure that wow & flutter is within 0.15% (JIS WRMS).	Semi-fixed resistor inside the motor
Playback output power	VTT722 (1 kHz)	Maximum output should be 1100 mW (2.97 V/8 Ω). Output should be 1000 mW or more with 10% T.H.D. (2.8 V/8 Ω).	—
Playback frequency characteristics	VTT736 125 Hz 1 kHz 8 kHz	The playback output level should satisfy the following characteristics with respect to 1 kHz. 125 Hz Within $+1 \pm 3 \text{ dB}$ 8 kHz Within $+1 \pm 3 \text{ dB}$	—
R/P frequency characteristics	Normal tape(UR) (TS-8)	Apply -20 dB signal with respect to the specified input: the following values should be satisfied when the 1 kHz signal is reference. 125 Hz $+1 \text{ dB} \pm 3 \text{ dB}$ 8 kHz $+1 \text{ dB} \pm 3 \text{ dB}$	—
Erasability	Normal tape	Erase the prerecorded tape, then check to see if the previous recording has been erased completely.	—
Biphonic function	VTT752	<ul style="list-style-type: none"> <li>Set the Biphonic switch to the 'BIPHONIC WIDE' position.</li> <li>With the VTT752 test tape being played back, measure the cross-talk level.</li> <li>Confirm that leak level is <math>-4 \pm 2 \text{ dB}</math> in both current flows of <math>L \rightarrow R</math> and <math>R \rightarrow L</math>.</li> </ul>	—

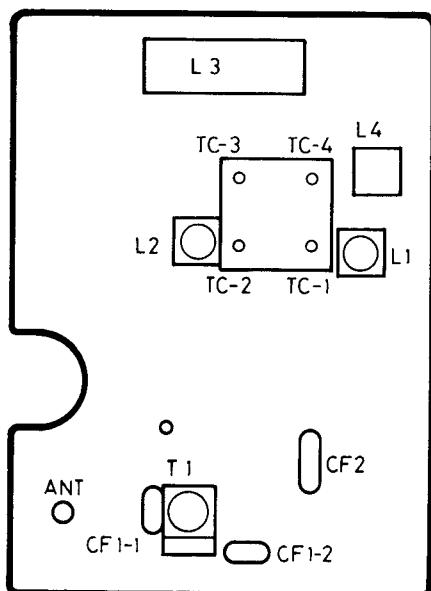


Fig. 6-2

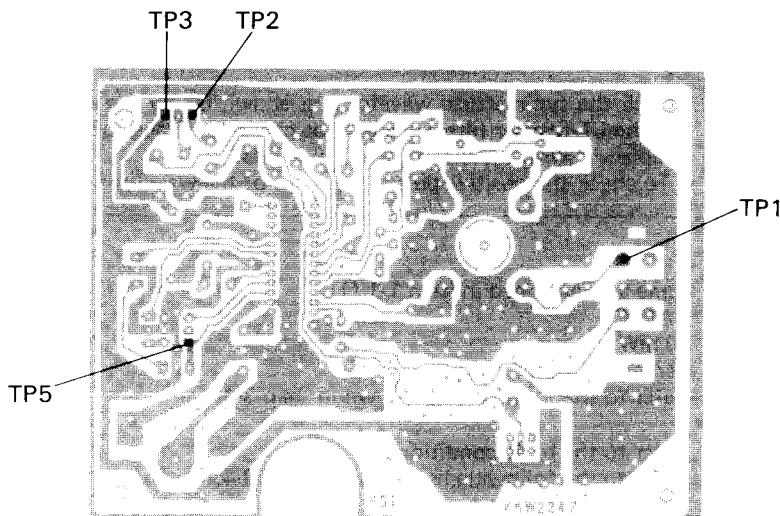
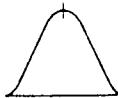
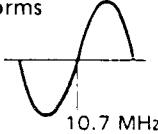


Fig. 6-3

## ■ Tuner Alignment

### BASIC CONDITIONS

POWER SOURCE OF THE RECEIVER	DC 9 V, AC 110-120, 220-240 V B/E/G version AC 110-127, 220-240 V U version
LOAD RESISTANCE OF THE RECEIVER	50 mW (0.63 V)/8 Ω
MODULATION OF SSG	400 Hz. 30%
Item	Description
<b>1. AM IF ALIGNMENT</b> 1-1 Conditions of the receiver (1) Power source: (2) Function switch position: (3) Band select switch: (4) Volume control: (5) Tone control: (6) Variable capacitor:	Since this item need not be adjusted, confirm the correctness according to the following procedure. DC 5 V (When the power is supplied directly to the tuner in the receiver, the voltage should be adjusted to the proper level which shall be required by the tuner.) RADIO AM Minimum gain position Center position Near the minimum capacity position where no signal comes in.

Item	Description			
1-2 Connection of sweeper and the receiver (1) Tuner input: (2) Tuner output:	Positive side to TP1 Positive side to TP2 Negative side to TP3			
1-3 Aligning position: 1-4 Alignment (Waveform):	 T1 Adjust AM I.F.T. (above mentioned aligning position) so that maximum and symmetrical waveform can be obtained. In this case, the wavehead should be appeared at the center marker (450 kHz) on the scope of the sweeper.			
<b>2. FM IF ALIGNMENT</b>	Since this item need not be adjusted, confirm the correctness according to the following procedure.			
2-1 Conditions of the receiver (1) Power source: (2) Function switch position: (3) Band select switch: (4) Volume control: (5) Tone control: (6) Variable capacitor:	Same as mentioned in item 1-1 (1). RADIO FM Minimum gain position Center position Near the minimum capacity position where no signal comes in.			
2-2 Connection of sweeper and the receiver (1) Tuner input: (2) Tuner output:	Positive side to TP5 Positive side to TP2 Negative side to TP3			
<b>Note:</b> a) Attach a capacitor (30 pF) and a resistor (30 kΩ) to the positive side cable which should be led from sweeper input. b) Attach a resistor (100 kΩ) in series to the positive side cable which shall be led from sweeper output.				
2-3 Checking FM IF waveforms	 <ul style="list-style-type: none"> <li>Such the symmetrical waveform as shown below can be confirmed at TP2. If the CF (carrier filter) needs to be changed because of abnormal waveform, replace it with the kit of three-time parts.</li> <li>To check the positive pulse (  ) of the waveform, remove CF2.</li> </ul>			
<b>3. AM RF ALIGNMENT</b>				
3-1 Conditions of the receiver (1) Power source: (2) Function switch position: (3) Volume control: (4) SEA control: (5) Variable capacitor:	Same as mentioned in item 1-1 (1) RADIO 50 mW Center position Refer to the following list shown in item 3-4.			
3-2 Conditions of SSG (1) Modulation: (2) Frequency: (3) Output level of the attenuator in SSG:	Refer to the basic condition. Refer to the following list shown in item 3-4. Approx. 50 mW			
3-3 Power output measuring position: 3-4 Alignment:	Speaker terminals			
Band Select Switch Position	Sort of Antenna to be attached to SSG	Frequency of SSG	Variable Capacitor Position	Aligning Position
1	AM	520 kHz	Max. capacity	L4
2		1,650 kHz	Min. capacity	TC-4
3		Adjust the above aligning position (L4 & TC-7) repeatedly so that the tuner can receive frequency in the above range (band width).		
4		600 kHz	600 kHz can be received	L3
5		1,400 kHz	1,400 kHz can be received	TC-3
6		Adjust the above aligning position (L3 & TC3) repeatedly so that the tuner can obtain the best sensitivity.		
7	LW (B/E/G version)	145 kHz	Max. capacity	L6
8		360 kHz	Min. capacity	TC-6
9		Adjust the above aligning position (L6 & TC-6) repeatedly so that the tuner can be received above frequency range (band width).		
10		145 kHz	to be received 145 kHz	L8
11		360 kHz	to be received 360 kHz	TC-8
12		Adjust the above aligning position (L3 & TC-2) repeatedly so that the tuner can be obtained the best sensitivity.		

	Band Select Switch Position	Sort of Antenna to be attached to SSG	Frequency of SSG	Variable Capacitor Position	Aligning Position		
13	SW (U version)	Dummy Antenna	5.8 MHz	Max. capacity	L6		
14			18.6 MHz	Min. capacity	TC-6		
15			Adjust the above aligning position (L6 & TC-6) repeatedly so that the tuner can be received above frequency range (band width).				
16		TP1 (Positive) TP2 (Earth)	6 MHz	to be received 6 MHz	L8		
17			18 MHz	to be received 18 MHz	TC-8		
18			Adjust the above aligning position (L8 & TC-8) repeatedly so that the tuner can be obtained the best sensitivity.				
Item			Description				
<b>4. FM RF ALIGNMENT</b>							
4-1 Conditions of the receiver.							
(1) Power source: (2) Function switch position: (3) Band select switch: (4) Volume control: (5) SEA control: (6) Variable capacitor:			Same as mentioned in item 1-1. RADIO FM 50 mW Center position Refer the following list shown in item 4-3.				
4-2 Condition of FM SSG.			Refer the basic condition Refer the following list shown in item 4-3.				
(1) Modulation: (2) Frequency: (3) Output level of the attenuator in FM SSG:			The level shall be decided by the load resistance of the receiver mentioned in the basic conditions.				
4-3 Alignment:							
	Band Select Switch Position	Sort of Antenna to be attached to SSG	Frequency of SSG	Variable Capacitor Position	Aligning Position		
1	FM (B/E/U version)	Dummy Antenna	87.6 MHz	Max. capacity	L1		
2			109.1 MHz	Min. capacity	TC-1		
3			Adjust the above aligning position (L1 & TC-1) repeatedly so that the tuner can be received above frequency range (band width).				
4		Dummy Antenna	90 MHz	to be received 90 MHz	L2		
5			106 MHz	to be received 108 MHz	TC-5		
6			Adjust the above aligning position (L2 & TC-5) repeatedly so that the tuner can be obtained the best sensitivity.				
7	FM (G version)	Dummy Antenna	87.6 MHz	Max. capacity	L1		
8			108.4 MHz	Min. capacity	TC-1		
9			Adjust the above aligning position (L1 & TC-1) repeatedly so that the tuner can be received above frequency range (band width).				
10		Dummy Antenna	90 MHz	to be received 90 MHz	L2		
11			106 MHz	to be received 108 MHz	TC-5		
12			Adjust the above aligning position (L2 & TC-5) repeatedly so that the tuner can be obtained the best sensitivity.				

**• MPX :**

Since no adjustment is required for MPX, check up ICs if abnormality or incorrectness is founded in MPX function.

## 7 Block Diagrams

### ■ Amplifier Section

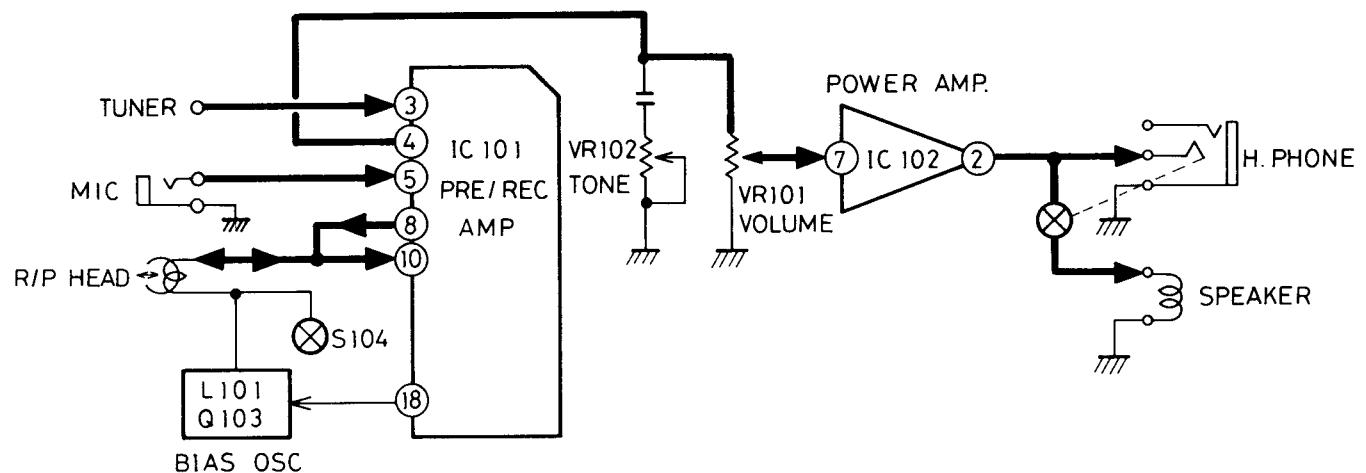


Fig. 7-1

### ■ Tuner Section

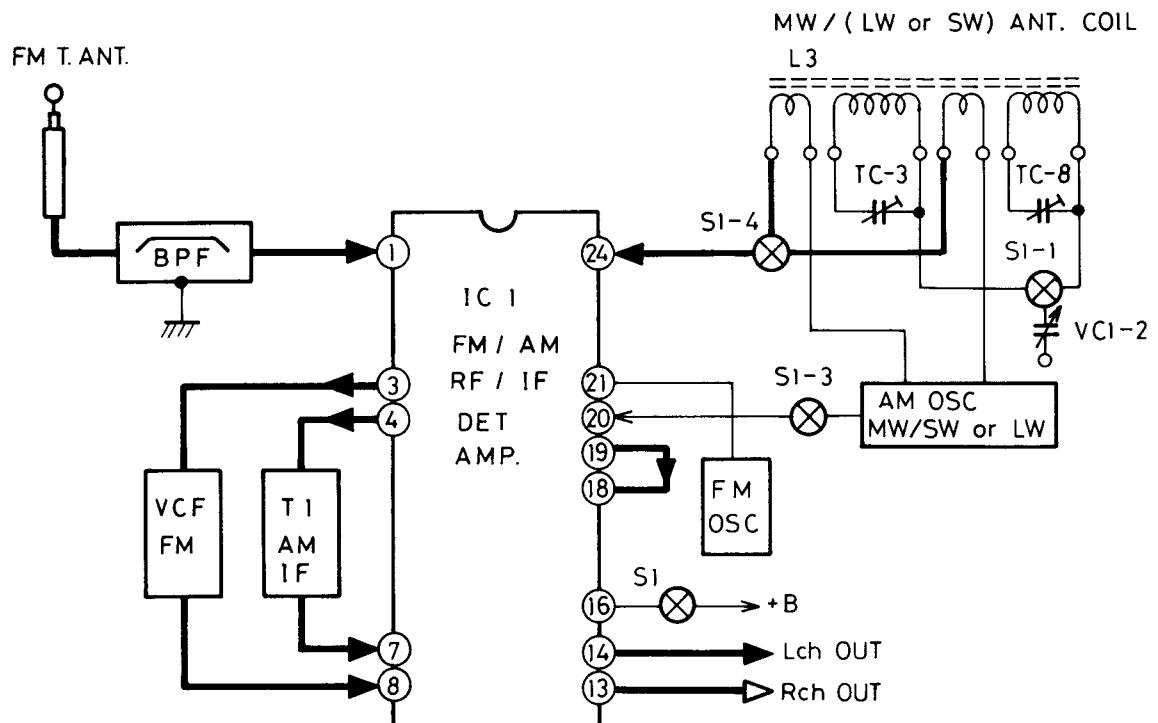


Fig. 7-2

## 8 Wiring Connections

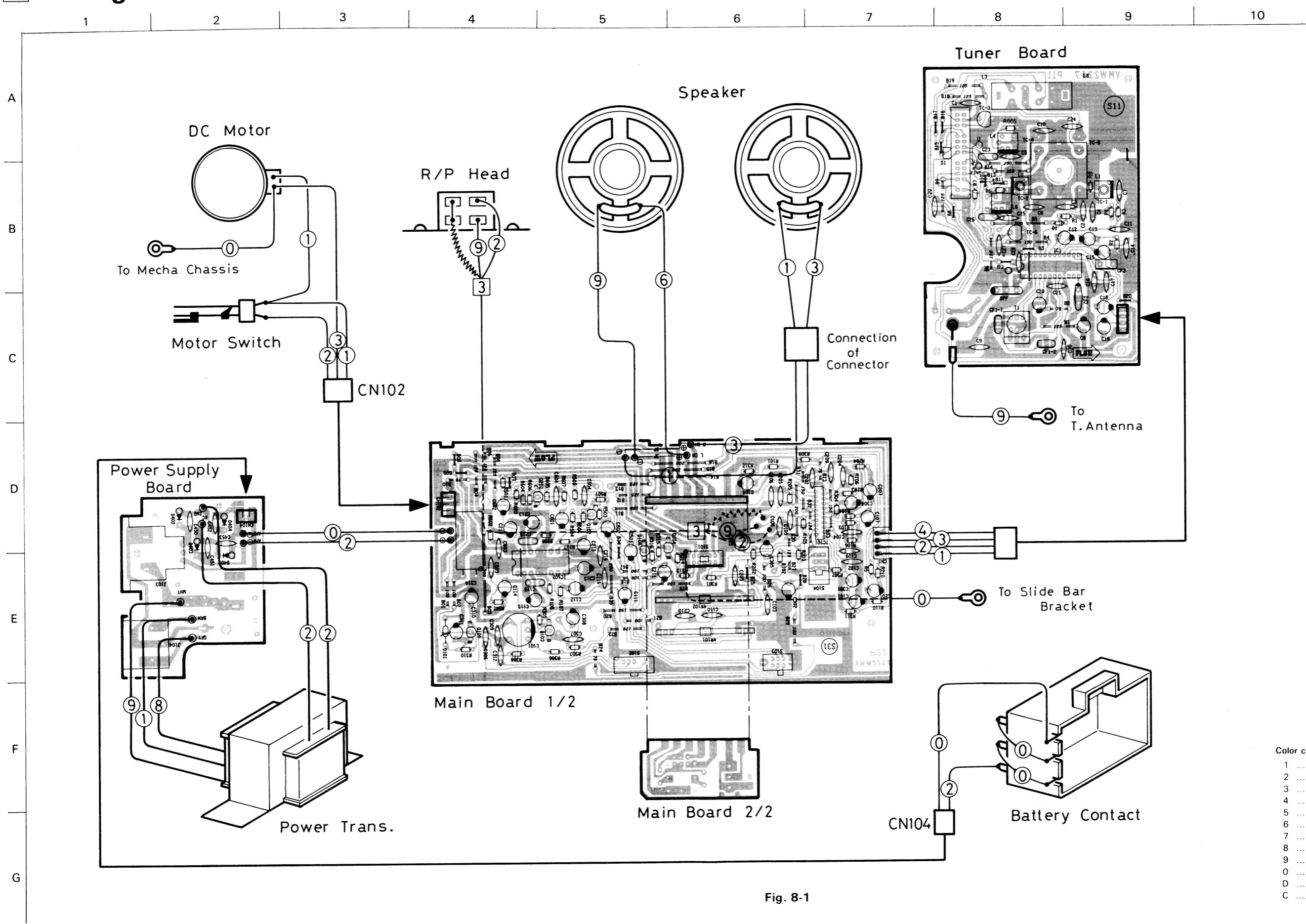


Fig. 8-1

## 9 Standard Schematic Diagrams

### ■ Amplifier Circuit

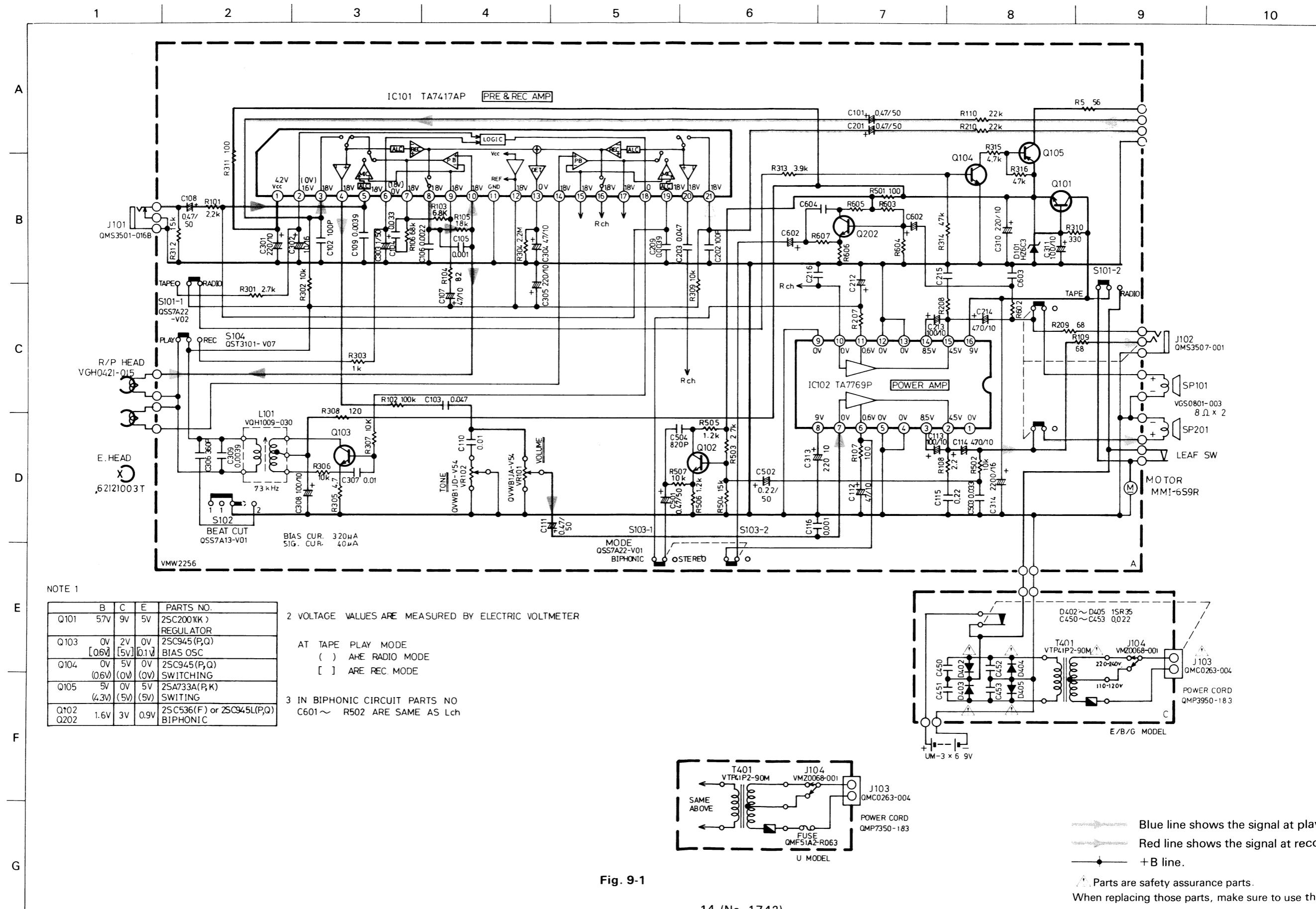


Fig. 9-1

## ■ Tuner Circuit (B/E Version)

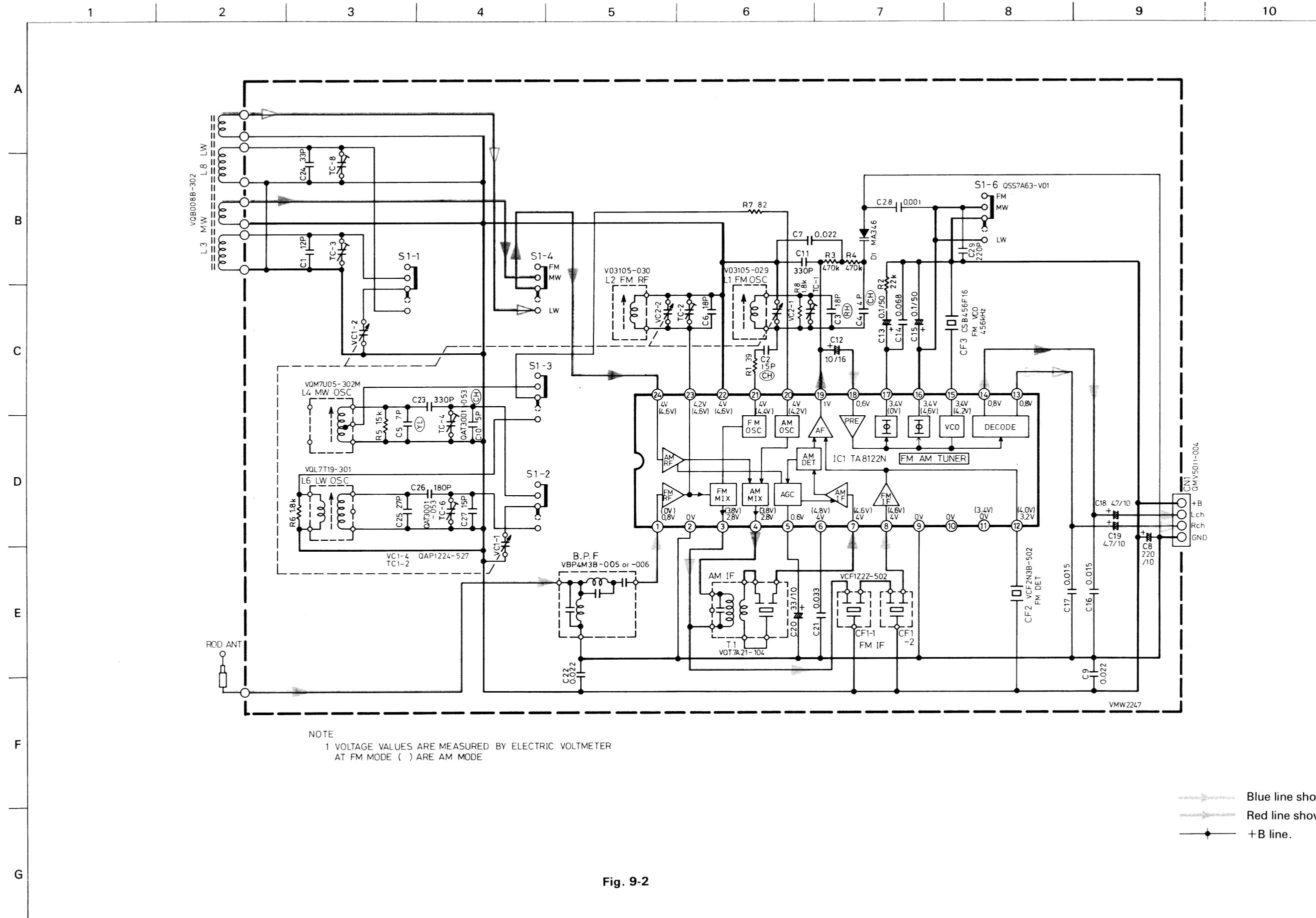


Fig. 9-

NOTE  
1 VOLTAGE VALUES ARE MEASURED BY ELECTRIC VOLTMET.  
AT FM MODE ( ) ARE AM MODE

Blue line shows the signal at FM.  
Red line shows the signal at AM.  
+B line.

## ■ Tuner Circuit (G Version)

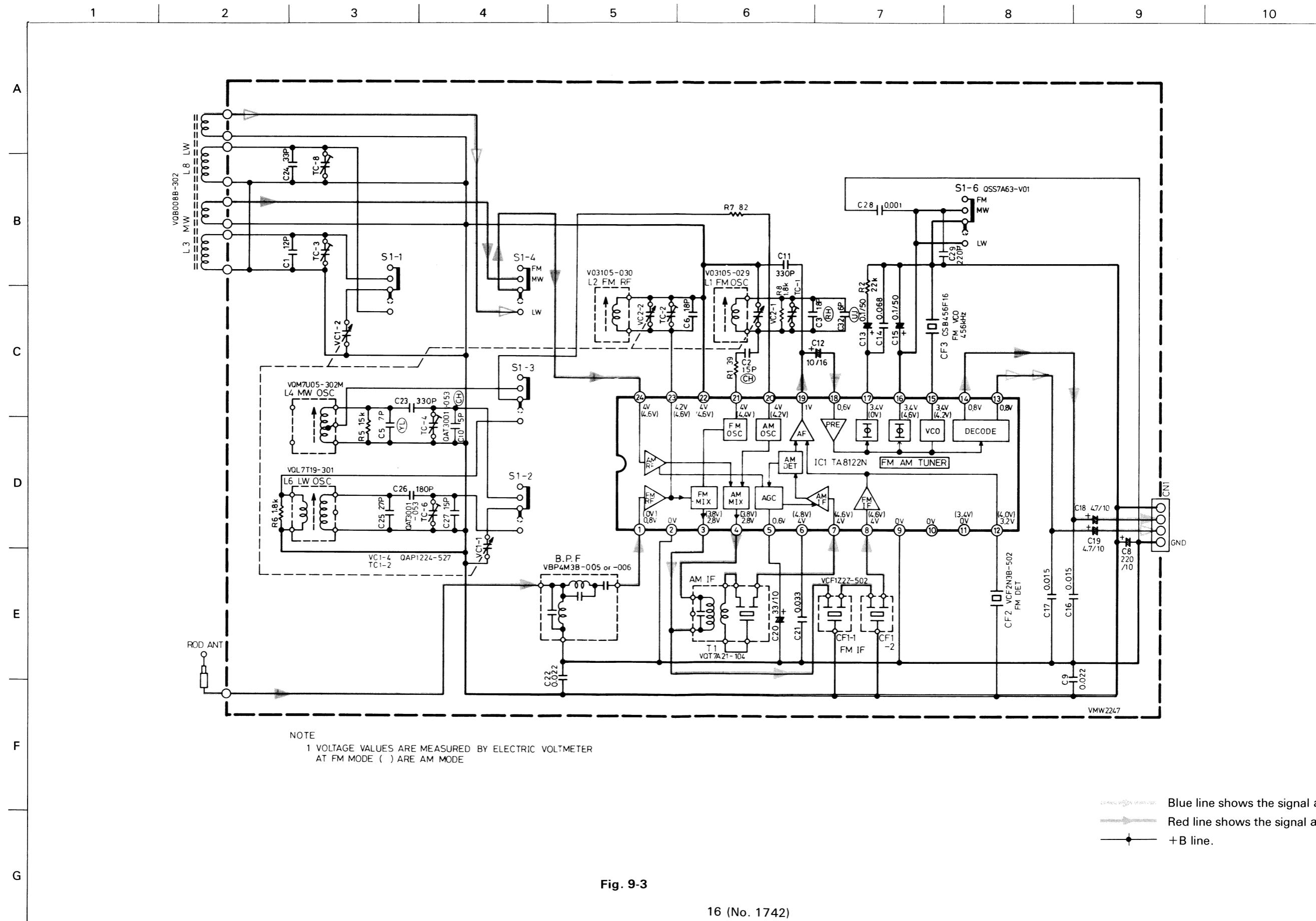
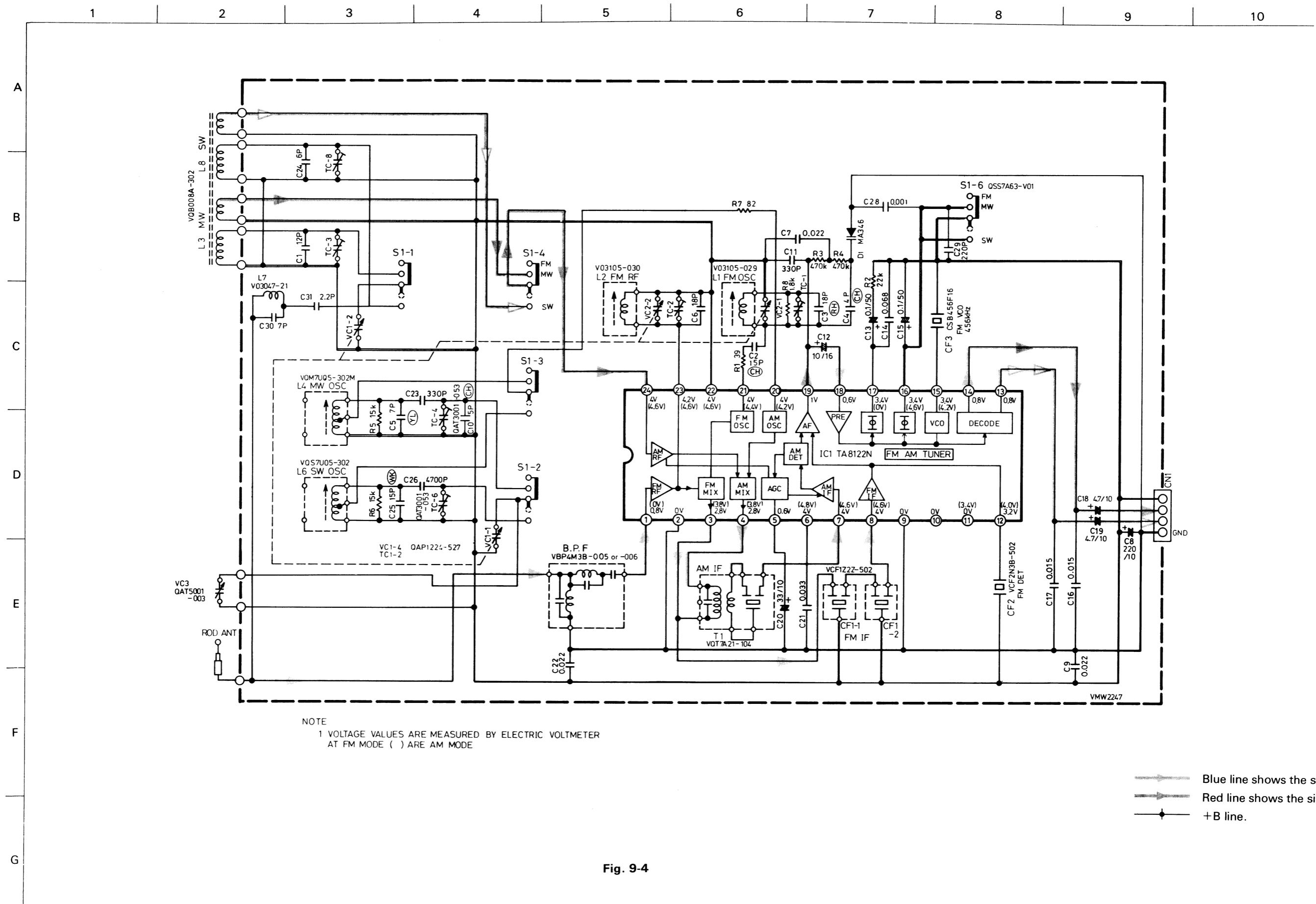


Fig. 9-3

## ■ Tuner Circuit (U Version)



## 10 Location of P.C. Board and Parts List

### ■ Amplifier Board

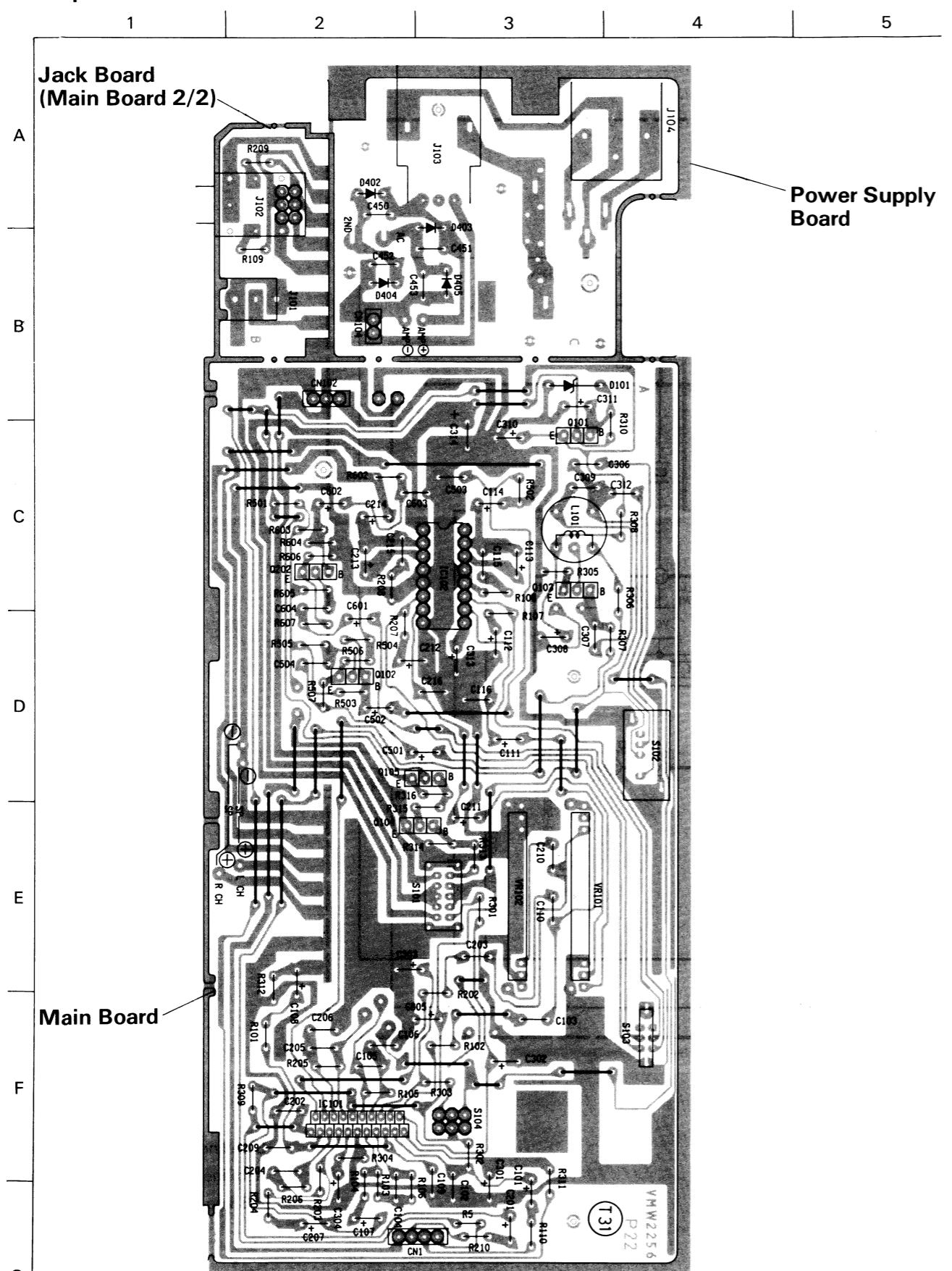


Fig. 10-1

### Amplifier Board Parts List

REF. NO	PARTS NO.	PARTS NAME
CN102	QMV5012-003	CONNECTOR
C101	QETC1HM-474ZM	E.CAPACITOR
C102	QCS31HJ-101Z	C.CAPACITOR
C103	QCC31EM-473ZV	C.CAPACITOR
C104	QCC31EM-333ZV	C.CAPACITOR
C105	QCY31HK-102Z	C.CAPACITOR
C106	QCY31HK-222Z	C.CAPACITOR
C107	QETB1AM-476N	E.CAPACITOR
C108	QETC1HM-474ZN	E.CAPACITOR
C109	QCY31HK-392Z	C.CAPACITOR
C110	QCC31EM-103ZV	C.CAPACITOR
C111	QETC1HM-474ZN	E.CAPACITOR
C112	QETC1AM-476ZN	E.CAPACITOR
C113	QETC1AM-107ZN	E.CAPACITOR
C114	QETC1AM-477ZN	E.CAPACITOR
C115	QFV71HJ-224ZM	TF.CAPACITOR
C116	QCY31HK-102Z	C.CAPACITOR
C201	QETC1HM-474ZM	E.CAPACITOR
C202	QCS31HJ-101Z	C.CAPACITOR
C203	QCC31EM-473ZV	C.CAPACITOR
C204	QCC31EM-333ZV	C.CAPACITOR
C205	QCY31HK-102Z	C.CAPACITOR
C206	QCY31HK-222Z	C.CAPACITOR
C207	QETC1AM-476ZN	E.CAPACITOR
C209	QCY31HK-392Z	C.CAPACITOR
C210	QCC31EM-103ZV	C.CAPACITOR
C211	QETC1HM-474ZN	E.CAPACITOR
C212	QETC1AM-476ZN	E.CAPACITOR
C213	QETC1AM-107ZN	E.CAPACITOR
C214	QETC1AM-477ZN	E.CAPACITOR
C215	QFV71HJ-224ZM	TF.CAPACITOR
C216	QCY31HK-102Z	C.CAPACITOR
C301	QETC1AM-227ZM	E.CAPACITOR
C302	QETC1CM-106ZM	E.CAPACITOR
C303	QETC1HM-105ZN	E.CAPACITOR
C304	QETC1AM-476Z	E.CAPACITOR
C305	QETC1AM-227ZM	E.CAPACITOR
C306	QCS31HJ-361Z	C.CAPACITOR
C307	QCC31EM-103ZV	C.CAPACITOR
C308	QETC1AM-107ZN	E.CAPACITOR
C309	QCY31HK-392Z	C.CAPACITOR
C310	QETC1AM-107ZN	E.CAPACITOR
C311	QETB1AM-227N	E.CAPACITOR
C312	QCS31HJ-471Z	C.CAPACITOR
C313	QETC1AM-227ZN	E.CAPACITOR
C314	QETA1CM-228M	E.CAPACITOR
C450	QCF31HP-223Z	C.CAPACITOR
C451	QCF31HP-223Z	C.CAPACITOR
C452	QCF31HP-223Z	C.CAPACITOR
C453	QCF31HP-223Z	C.CAPACITOR
C501	QETB1HM-474N	E.CAPACITOR
C502	QETC1HM-224ZN	E.CAPACITOR
C503	QCC31EM-333ZV	C.CAPACITOR
C504	QCY31HK-821Z	C.CAPACITOR
C601	QETC1HM-474ZN	E.CAPACITOR
C602	QETC1HM-224ZN	E.CAPACITOR
C603	QCC31EM-333ZV	C.CAPACITOR
C604	QCY31HK-821Z	C.CAPACITOR
D101	HZ6C3	Z DIODE
D402	1SR35-100AT-93	SI DIODE
D403	1SR35-100AT-93	SI DIODE
D404	1SR35-100AT-93	SI DIODE
D405	1SR35-100AT-93	SI DIODE
IC101	TA7417AP	IC
J101	QMS3501-016B	JACK

⚠ Parts are safety assurance parts.

When replacing those parts, make sure to use the specified one

REF. NO	PARTS NO.	PARTS NAME
J102	QMS3507-001	HEADPHONE JACK
J103	QMC0263-004BS	AC SOCKET
J104	VMZ0068-001BS	VOLT. SELECTOR
L101	VQH1009-030	OSC COIL(BIAS)
Q101	2SC2001(K)-T	TRANSISTOR
Q102	2SC536(F,G)AC	TRANSISTOR 7-7°
Q103	2SC945(P,K)-T	TRANSISTOR
Q104	2SC945(P,Q)-T	TRANSISTOR
Q105	2SA733A(P,K)-T	TRANSISTOR
Q202	2SC536(F,G)AC	TRANSISTOR 7-7°
R101	QRD161J-222Y	CARBON RESISTOR
R102	QRD161J-104Y	CARBON RESISTOR
R103	QRD161J-682Y	CARBON RESISTOR
R104	QRD161J-820Y	CARBON RESISTOR
R105	QRD161J-183Y	CARBON RESISTOR
R106	QRD161J-683Y	CARBON RESISTOR
R107	QRD161J-101Y	CARBON RESISTOR
R108	QRD161J-2R2Y	CARBON RESISTOR
R109	QRD161J-680Y	CARBON RESISTOR
R110	QRD161J-153Y	CARBON RESISTOR
R202	QRD161J-104Y	CARBON RESISTOR
R203	QRD161J-682Y	CARBON RESISTOR
R204	QRD161J-820Y	CARBON RESISTOR
R205	QRD161J-183Y	CARBON RESISTOR
R206	QRD161J-683Y	CARBON RESISTOR
R207	QRD161J-101Y	CARBON RESISTOR
R208	QRD161J-2R2Y	CARBON RESISTOR
R209	QRD161J-680Y	CARBON RESISTOR
R210	QRD161J-153Y	CARBON RESISTOR
R301	QRD161J-272Y	CARBON RESISTOR
R302	QRD161J-103Y	CARBON RESISTOR
R303	QRD161J-102Y	CARBON RESISTOR
R304	QRD161J-225Y	CARBON RESISTOR
R305	QRD161J-4R7Y	C RESISTOR
R306	QRD161J-103Y	CARBON RESISTOR
R307	QRD161J-103Y	CARBON RESISTOR
R308	QRD161J-121Y	CARBON RESISTOR
R309	QRD161J-103Y	CARBON RESISTOR
R310	QRD161J-331Y	CARBON RESISTOR
R311	QRD161J-101Y	CARBON RESISTOR
R312	QRD161J-153Y	CARBON RESISTOR
R313	QRD161J-392Y	CARBON RESISTOR
R314	QRD161J-473Y	CARBON RESISTOR
R315	QRD161J-472Y	CARBON RESISTOR
R316	QRD161J-473Y	CARBON RESISTOR
R5	QRD161J-560Y	CARBON RESISTOR
R501	QRD161J-101Y	CARBON RESISTOR
R502	QRD161J-103Y	CARBON RESISTOR
R503	QRD161J-273Y	CARBON RESISTOR
R504	QRD161J-153Y	CARBON RESISTOR
R505	QRD161J-122Y	CARBON RESISTOR
R506	QRD161J-122Y	CARBON RESISTOR
R507	QRD161J-103Y	CARBON RESISTOR
R602	QRD161J-103Y	CARBON RESISTOR
R603	QRD161J-273Y	CARBON RESISTOR
R604	QRD161J-153Y	CARBON RESISTOR
R605	QRD161J-122Y	CARBON RESISTOR
R606	QRD161J-122Y	CARBON RESISTOR
R607	QRD161J-103Y	CARBON RESISTOR
S101	QSS7A22-V02	SLIDE SW
S102	QSS7A13-V01	SLIDE SW
S103	QSS7A22-V01	SLIDE SW
S104	QST3101-V07	PUSH SW
VR101	QVWB1JA-V54	V RESISTOR
VR102	QVWB1JD-V54	V RESISTOR

### Comparison Table of Board Parts – RC-N5(BK)A/B/E/G/U

Parts Name	Ref.No.	Parts No. (RC-N5B)	Parts No. (RC-N5A/G/E)	Parts No. (RC-N5U)
Power Transformer AC Socket Voltage Selector Fuse	T401 J103 J104	VTP41P2-90MBS QMC0263-004BS VMZ0068-001BS	VTP41P2-90M QMC0263-004 VMZ0068-001	VTP41P2-90M QMC0263-004 VMZ0068-001 QMF51A2-R063

## ■ Tuner Board (G version)

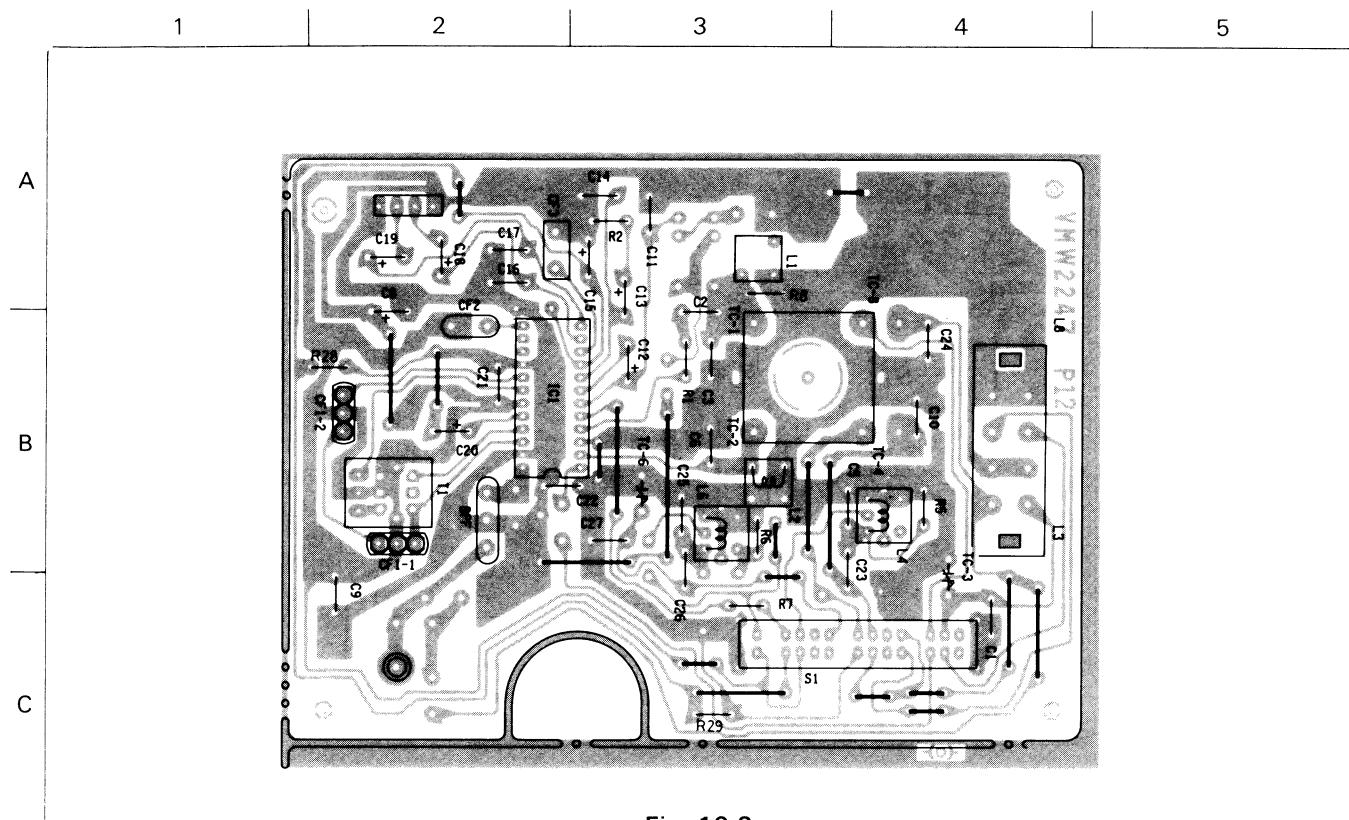


Fig. 10-2

## Tuner Board Parts List (G version)

REF. NO	PARTS NO.	PARTS NAME
BPF	VBP4M3B-005	BP FILTER
CF3	CSB456F16	C.FILTER
CN1	QMV5011-004	CONNECTOR
C1	QCS31HJ-120Z	C.CAPACITOR
C10	QCT25CH-5R0Z	C CAPACITOR
C11	QCS31HJ-331Z	C.CAPACITOR
C12	QETC1CM-106ZN	E.CAPACITOR
C13	QETC1HM-104ZN	E.CAPACITOR
C14	QCC31EM-683ZV	C.CAPACITOR
C15	QETC1HM-104ZN	E.CAPACITOR
C16	QCC31EM-153ZV	C.CAPACITOR
C17	QCC31EM-153ZV	C.CAPACITOR
C18	QETC1EM-475ZN	E CAPACITOR
C19	QETC1EM-475ZN	E CAPACITOR
C2	QCT25CH-150Z	C CAPACITOR
C20	QETC1AM-336ZN	E CAPACITOR
C21	QCC31EM-333ZV	C.CAPACITOR
C22	QCC31EM-223ZV	C.CAPACITOR
C23	QFP32AJ-331ZM	PP CAPACITOR
C24	QCS31HJ-330Z	C.CAPACITOR
C25	QCS31HJ-270Z	C.CAPACITOR
C26	QFP32AJ-181ZM	PP.CAPACITOR
C27	QCS31HJ-150Z	C.CAPACITOR
C28	QCY41HK-102	C.CAPACITOR
C29	QCBB1HK-221Y	C.CAPACITOR

▲ Parts are safety assurance parts

When replacing those parts, make sure to use the specified one.

REF. NO	PARTS NO.	PARTS NAME
C3	QCT30RH-180Y	C CAPACITOR
C32	QCT05UJ-6R0V	C CAPACITOR
C33	QCC11EM-223V	C CAPACITOR
C5	QCT05YL-7R0V	C CAPACITOR
C6	QCS31HJ-180Z	C CAPACITOR
C8	QETC1AM-227ZN	E.CAPACITOR
C9	QCC31EM-223ZV	C.CAPACITOR
IC1	TA8122N	IC
L1	VO3105-029	OSC COIL
L2	VO3105-030	RF COIL
L3 L8	VQB008B-302	BAR ANTENA
L4	VQM7U05-302M	OSC COIL(MW)
L6	VQL7T19-301	OSC COIL
R1	QRD161J-390Y	CARBON RESISTOR
R2	QRD161J-223Y	CARBON RESISTOR
R6	QRD161J-182Y	CARBON RESISTOR
R7	QRD161J-820Y	CARBON RESISTOR
R8	QRD161J-182Y	CARBON RESISTOR
R9	QRD161J-153Y	CARBON RESISTOR
TC-3	QAT3001-053	T.CAPACITOR
TC-6	QAT3001-053	T.CAPACITOR
TC1-2	QAP1224-527	V CAPACITOR
T1	VQT7A21-104	IFT
VC1-4	QAP1224-527	V CAPACITOR

**Note :** Since CF1 and CF2 are unadjustable parts, replace them with the specified kit of the parts if necessary.

## ■ Tuner Board (A/U version)

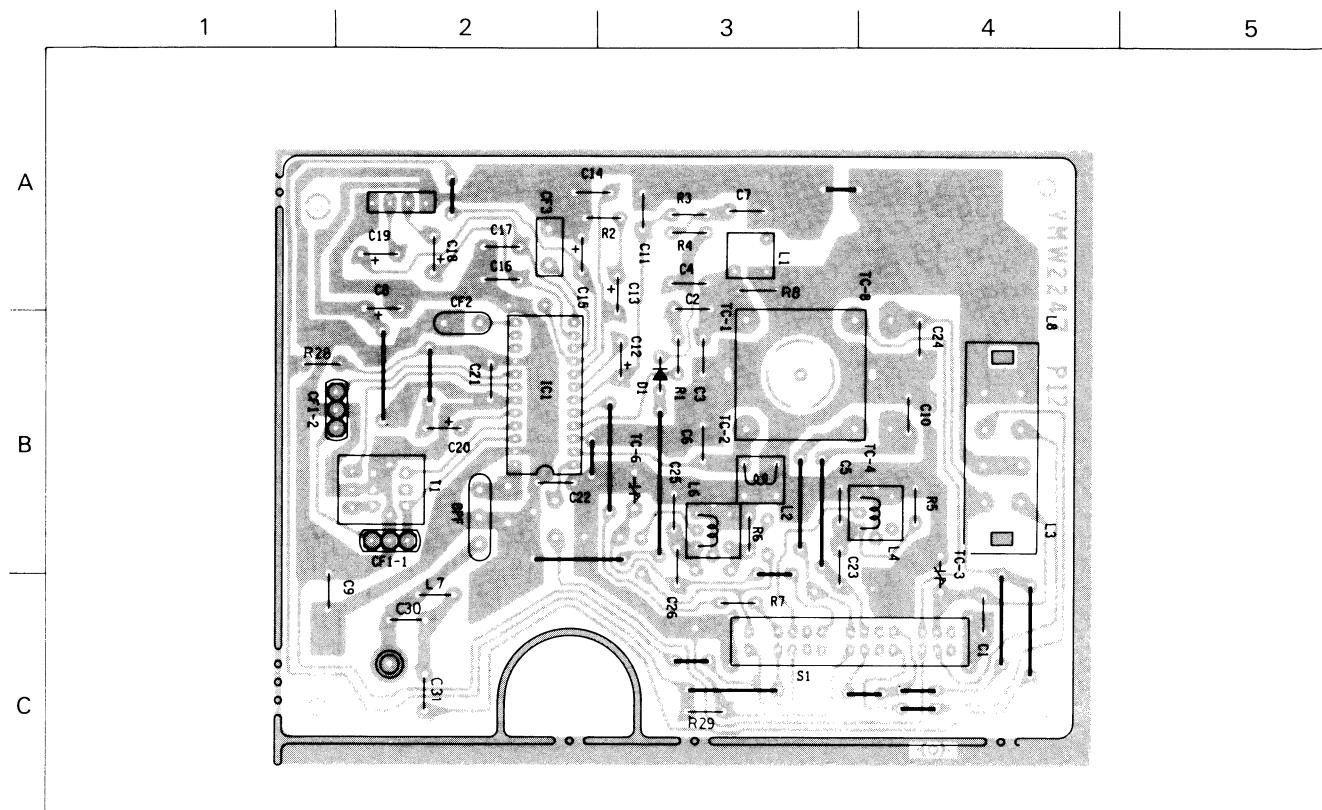


Fig. 10-3

## Tuner Board Parts List (A/U/ version)

REF. NO	PARTS NO.	PARTS NAME
BPF	VBP4M3B-005	BP FILTER
CF3	CSB456F16	C.FILTER
CN1	QMV5011-004	CONNECTOR
C1	QCS31HJ-120Z	C.CAPACITOR
C10	QCT25CH-4R0Z	C CAPACITOR
C11	QCS31HJ-331Z	C.CAPACITOR
C12	QETC1CM-106ZN	E.CAPACITOR
C13	QETC1HM-104ZN	E.CAPACITOR
C14	QCC31EM-683ZV	C.CAPACITOR
C15	QETC1HM-104ZN	E.CAPACITOR
C16	QCC31EM-123ZV	C.CAPACITOR
C17	QCC31EM-123ZV	C.CAPACITOR
C18	QETC1EM-475ZN	E CAPACITOR
C19	QETC1EM-475ZN	E CAPACITOR
C2	QCT25CH-150Z	C CAPACITOR
C20	QETC1AM-336ZN	E CAPACITOR
C21	QCC31EM-333ZV	C.CAPACITOR
C22	QCC31EM-223ZV	C.CAPACITOR
C23	QFP32AJ-331ZM	PP CAPACITOR
C24	QCS31HJ-6R0Z	C CAPACITOR
C25	QCT05WK-150V	C CAPACITOR
C26	QFP32AJ-472ZM	PP CAPACITOR
C28	QCY41HK-102	C.CAPACITOR
C29	QCBB1HK-221Y	C.CAPACITOR
C3	QCT30RH-180Y	C CAPACITOR
C30	QCS31HJ-5R0Z	C CAPACITOR
C31	QCSB1HK-2R2Y	C.CAPACITOR
C32	QCXB1CM-182Y	C CAPACITOR
C4	QCT25CH-4R0Z	C CAPACITOR
C5	QCT05YL-6R0V	C CAPACITOR

⚠ Parts are safety assurance parts

When replacing those parts, make sure to use the specified one.

REF. NO	PARTS NO.	PARTS NAME
C6	QCS31HJ-180Z	C CAPACITOR
C7	QCC31EM-223ZV	C.CAPACITOR
C8	QETC1AM-227ZN	E.CAPACITOR
C9	QCC31EM-223ZV	C.CAPACITOR
D1	MA346-TA5	VC DIODE
IC1	TA8122N	IC
L1	V03105-029	OSC COIL
L2	V03105-030	RF COIL
L3 L8	VQB008A-302	BAR ANTENA
L4	VQM7U05-302M	OSC COIL (MW)
L6	VQS7U05-302M	OSC COIL
L7	V03047-17	COIL
R1	QRD161J-390Y	CARBON RESISTOR
R2	QRD161J-223Y	CARBON RESISTOR
R3	QRD161J-474Y	CARBON RESISTOR
R4	QRD161J-474Y	CARBON RESISTOR
R6	QRD161J-153Y	CARBON RESISTOR
R7	QRD161J-820Y	CARBON RESISTOR
R8	QRD161J-182Y	CARBON RESISTOR
R9	QRD161J-153Y	CARBON RESISTOR
TC-3	QAT3001-053	T.CAPACITOR
TC-6	QAT3001-053	T.CAPACITOR
TC1-2	QAP1224-527	V CAPACITOR
T1	VQT7A21-104	IFT
VC1-4	QAP1224-527	V CAPACITOR
VC3	QAT5001-003	M CAPACITOR

**Note :** Since CF1 and CF2 are unadjustable parts, replace them with the specified kit of the parts if necessary.

## ■ Tuner Board (B/E version)

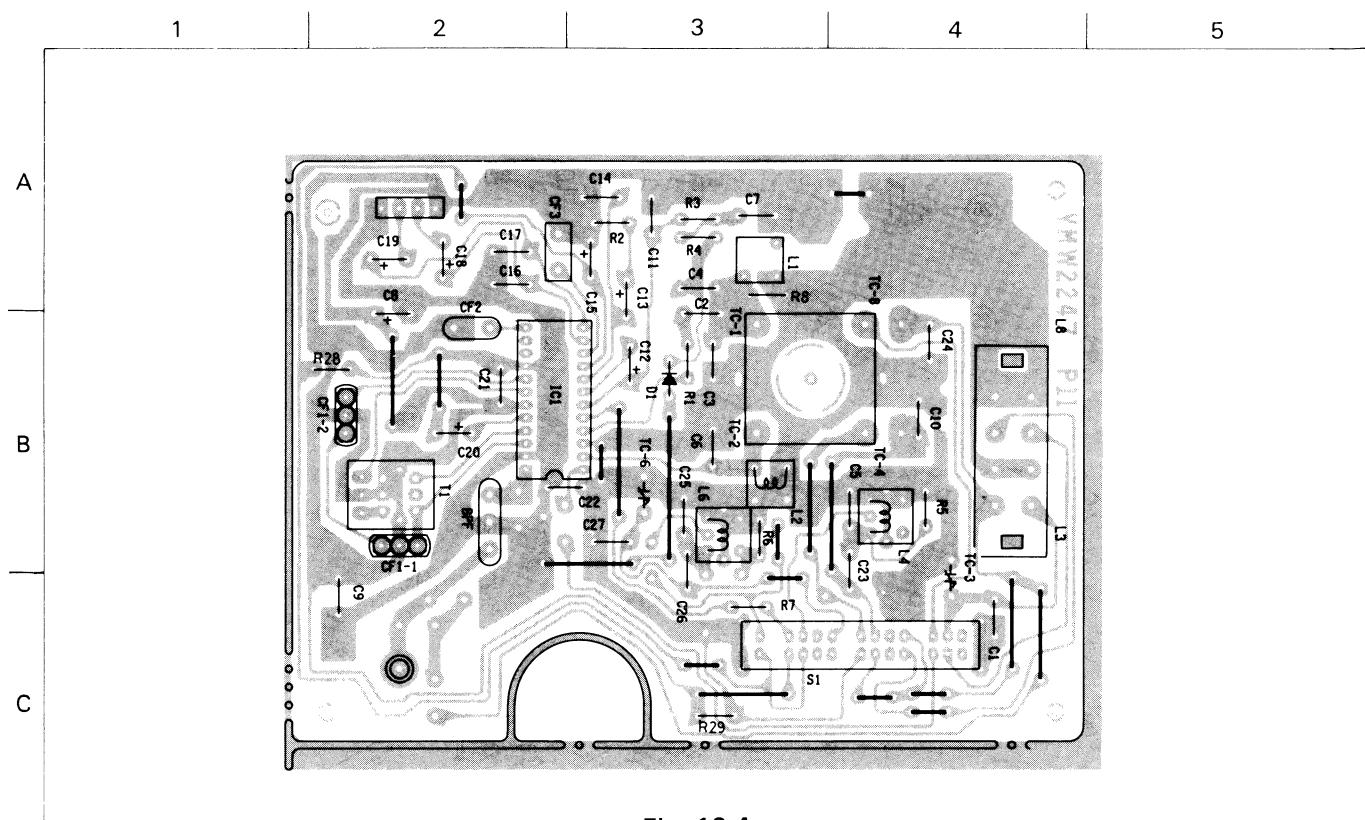


Fig. 10-4

## Tuner Board Parts List (B/E version)

REF. NO	PARTS NO.	PARTS NAME
BPF	VBP4M3B-005	BP FILTER
CF3	CSB456F16	C.FILTER
CN1	QMV5011-004	CONNECTOR
C1	QCS31HJ-120Z	C.CAPACITOR
C10	QCT25CH-5R0Z	C CAPACITOR
C11	QCS31HJ-331Z	C.CAPACITOR
C12	QETC1CM-106ZN	E.CAPACITOR
C13	QETC1HM-104ZN	E.CAPACITOR
C14	QCC31EM-683ZV	C.CAPACITOR
C15	QETC1HM-104ZN	E.CAPACITOR
C16	QCC31EM-153ZV	C.CAPACITOR
C17	QCC31EM-153ZV	C.CAPACITOR
C18	QETC1EM-475ZN	E CAPACITOR
C19	QETC1EM-475ZN	E CAPACITOR
C2	QCT25CH-150Z	C CAPACITOR
C20	QETC1AM-336ZN	E CAPACITOR
C21	QCC31EM-333ZV	C.CAPACITOR
C22	QCC31EM-223ZV	C.CAPACITOR
C23	QFP32AJ-331ZM	PP CAPACITOR
C24	QCS31HJ-330Z	C.CAPACITOR
C25	QCS31HJ-270Z	C.CAPACITOR
C26	QFP32AJ-181ZM	PP.CAPACITOR
C27	QCS31HJ-150Z	C.CAPACITOR
C28	QCY41HK-102	C.CAPACITOR
C29	QCBB1HK-221Y	C.CAPACITOR
C3	QCT30RH-180Y	C CAPACITOR
C4	QCT25CH-4R0Z	C CAPACITOR
C5	QCT05YL-7R0V	C CAPACITOR
C6	QCS31HJ-180Z	C CAPACITOR
C7	QCC31EM-223ZV	C.CAPACITOR

⚠ Parts are safety assurance parts.  
When replacing those parts, make sure to use the specified one.

REF. NO	PARTS NO.	PARTS NAME
C8	QETC1AM-227ZN	E.CAPACITOR
C9	QCC31EM-223ZV	C.CAPACITOR
D1	MA346-TA5	VC DIODE
IC1	TA8122N	IC
L1	V03105-029	OSC COIL
L2	V03105-030	RF COIL
L3 L8	VQB008B-302	BAR ANTENA
L4	VQM7U05-302M	OSC COIL(MW)
L6	VQL7T19-301	OSC COIL
P1	VMZ0015-001	POST PIN
R1	QRD161J-390Y	CARBON RESISTOR
R2	QRD161J-223Y	CARBON RESISTOR
R3	QRD161J-474Y	CARBON RESISTOR
R4	QRD161J-474Y	CARBON RESISTOR
R6	QRD161J-182Y	CARBON RESISTOR
R7	QRD161J-820Y	CARBON RESISTOR
R8	QRD161J-182Y	CARBON RESISTOR
R9	QRD161J-153Y	CARBON RESISTOR
S01	QSS7A63-V01	SLIDE SW
TC-3	QAT3001-053	T.CAPACITOR
TC-6	QAT3001-053	T.CAPACITOR
TC1-2	QAP1224-527	V CAPACITOR
T1	VQT7A21-104	IFT
VC1-4	QAP1224-527	V CAPACITOR

**Note :** Since CF1 and CF2 are unadjustable parts, replace them with the specified kit of the parts if necessary.

## 11 Exploded View of Mechanism Assembly

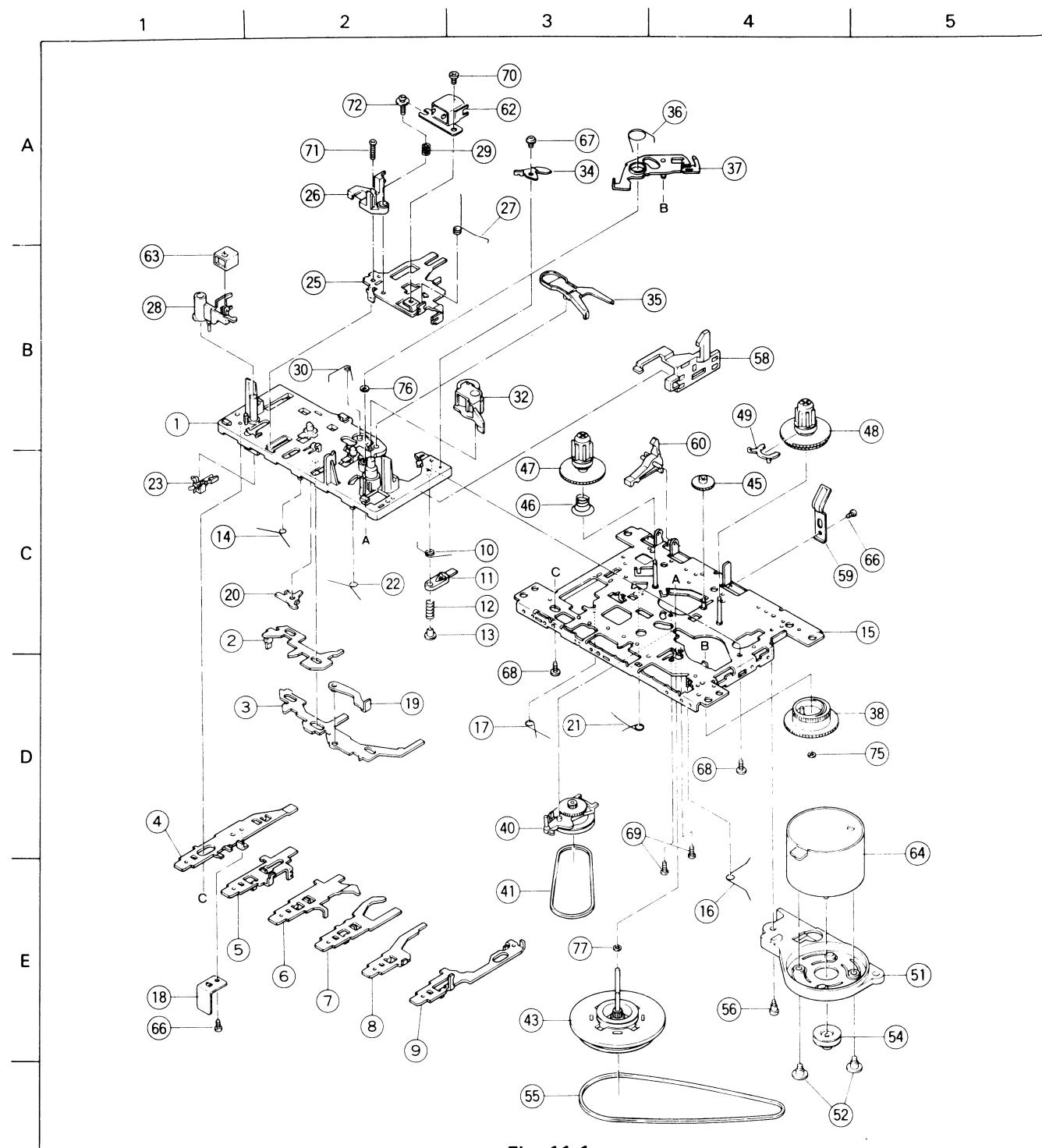


Fig. 11-1

### Mechanism Component Parts List

**⚠ Parts are safety assurance parts.**  
When replacing those parts, make sure to use the specified one.

REF.	PARTS NO.	PARTS NAME	REMARKS	Q.TY
1	192114301T	BASE ASS'Y		1
2	19211409T	SWITCH PLATE		1
3	19211408T	LOCK CAM		1
4	19211403T	BUTTON LEVER	REC	1
5	19211419T	BUTTON LEVER	PLAY	1

⚠ Parts are safety assurance parts.

When replacing those parts, make sure to use the specified one.

▲	REF.	PARTS NO.	PARTS NAME	REMARKS	Q.T.Y
	6	19211404T	BUTTON LEVER	REW	1
	7	19211405T	BUTTON LEVER	FF	1
	8	19211406T	BUTTON LEVER	STOP	1
	9	19211407T	BUTTON LEVER	PAUSE	1
	10	19211413T	TORSION SPRING		1
	11	19211410T	PAUSE LEVER		1
	12	19211412T	PAUSE LEVER SP.		1
	13	19211411T	PAUSE STOPPER		1
	14	19211414T	TORSION SPRING		1
	15	192101501T	CHASSIS ASS'Y		1
	16	19211416T	TORSION SPRING		1
	17	19211417T	TORSION SPRING	PLAY	1
	18	15100202T	REC SP. PLATE		1
	19	182101159T	E.KICK LEVER		1
	20	19211420T	PR STOPPER		1
	21	19211421T	TORSION SPRING		1
	22	19211415T	TORSION SPRING	PAUSE,STOP	1
	23	640101149T	LEAF SWITCH	MSW-1541T	1
	25	19210301T	HEAD PANEL		1
	26	19210304T	HEAD BASE		1
	27	19210303T	PANEL P SPRING		1
	28	19210305T	MG ARM		1
	29	18210307T	AZIMUTH SPRING		1
	30	19211418T	TORSION SPRING		1
	32	192104301T	P.ROLLER ASS'Y		1
	34	19211434T	P ARM		1
	35	19212604T	SENSING LEVER		1
	36	19212605T	TORSION SPRING		1
	37	192126502T	GEAR PLATE ASY.		1
	38	19212602T	CAM SWITCH		1
	40	192107301T	RF CLUTCH ASS'Y		1
	41	19210703T	RF BELT		1
	43	192109303T	FLYWHEEL ASS'Y		1
	45	18211070T	F.F.GEAR		1
	46	18291010T	BACK TENS. SP.		1
	47	192105302T	SUPPLY REEL ASY		1
	48	192105301T	T-UP REEL ASS'Y		1
	49	19210506T	SENDER		1
	51	19211208T	MOTOR BRACKET		1
	53	19211202T	COLLAR SCREW		2
	54	19211201T	MOTOR PULLEY		1
	55	18211203T	MAIN BELT		1
	56	19211203T	MB SCREW		1
	58	19211301T	EJ. SLIDE LEVER		1
	59	18291010T	PACK SPRING		1
	60	18211069T	REC.SAF.LEVER		1
	62	62020166T	R/P HEAD	VGH0421-015	1
	63	62121003T	MAGNET E. HEAD	862-01-11	1
	64	MMI-6S9R	MOTOR		1
	66	91790000T	TAPPING SCREW	M2 X 3	1
		91790000T	TAPPING SCREW	M2 X 3	1
	67	99992015T	SPECIAL SCREW	2 X 3	1
	68	96790000T	SCREW	2 X 5	2
	69	99991809T	SPECIAL SCREW	2 X 4.5	2
	70	91150000T	SCREW	M2 X 3	1
	71	90040000T	SCREW	M2 X -	1
	72	99220000T	SCREW	M2 X 7	1
	75	94220000T	POLY.CUT WASHER	1.2 X 3.8 X 0.3	1
	76	99990313T	POLY.CUT WASHER	1.45 X 3.8 X 0.5	1
	77	97860000T	P.WASHER	2 X 3.5 X 0.3	1

## 12 Exploded View of Enclosure Assembly

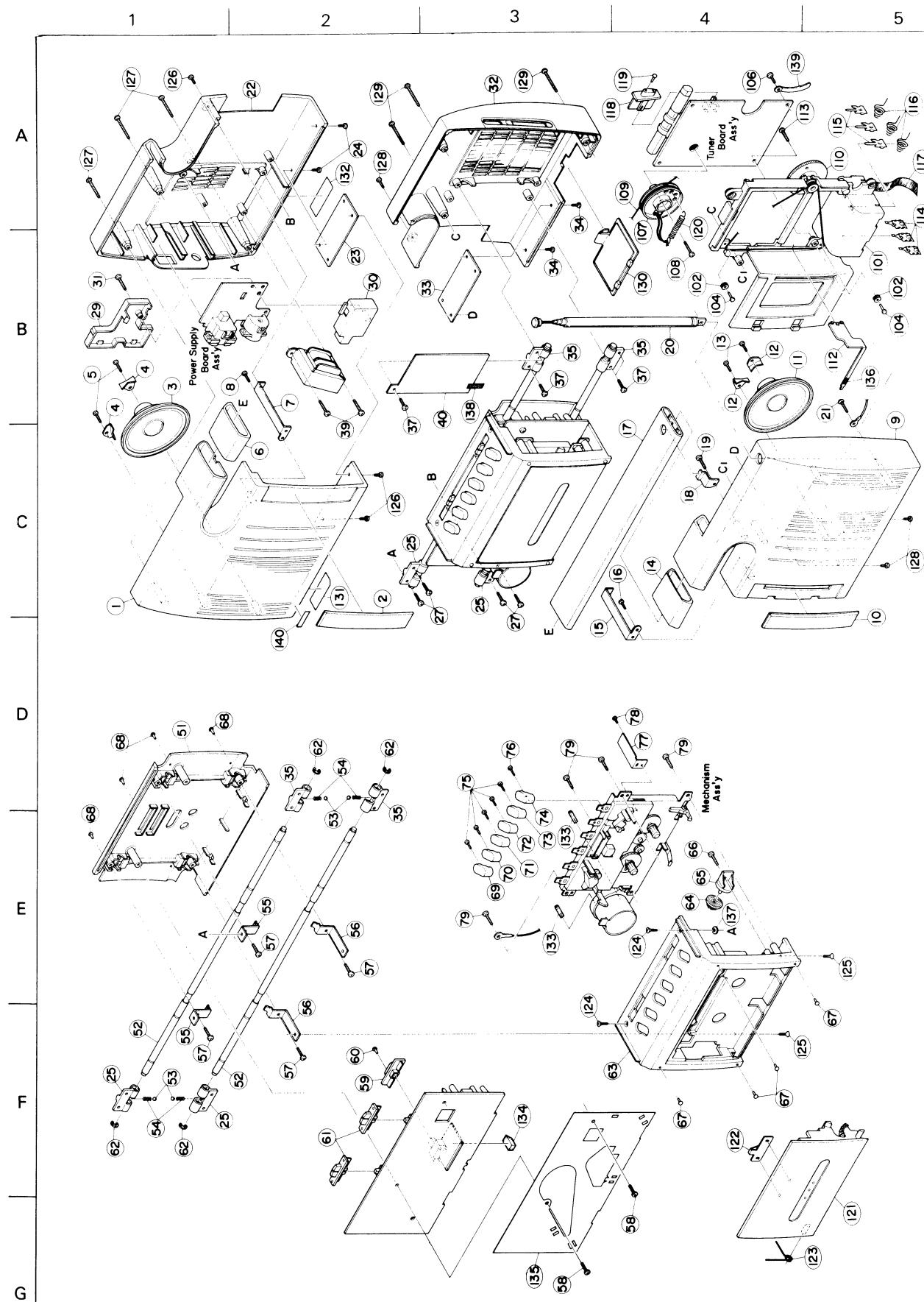


Fig. 12-1

## Enclosure Assembly Parts List

⚠ Parts are safety assurance parts.  
When replacing those parts, make sure to use the specified one.

▲ REF.	PARTS NO.	PARTS NAME	REMARKS	Q.T.Y
	1 VJC1645-002	F PANEL(L)	SP101	1
	2 VJK3407-002	LENS (L)		1
	3 VGS0801-003	SPEAKER		1
	4 VYH6567-001	CLAMP		2
	5 SBSF2608Z	SCREW		2
	6 VYH6568-002	SPACER	RC-N5B/E/G	1
	7 VYH6569-002	BRACKET		1
	8 SBSF2608Z	SCREW		1
	9 VJC1646-002	F PANEL(R)		1
	10 VJK3408-102	LENS(R)		1
	10 VJK3408-103	LENS(R)	RC-N5A/U	1
	11 VGS0801-003	SPEAKER	SP201	1
	12 VYH6567-001	CLAMP	SPEAKER	2
	13 SBSF2608Z	SCREW		2
	14 VYH6568-001	SPACER	HANDLE	1
	15 VYH6569-001	BRACKET	RC-N5B/E/G	1
	16 SBSF2608Z	SCREW		1
	17 VJH4096-001	HANDLE PIPE		1
	18 VYH6570-001	BRACKET		1
	19 SBSF3010Z	SCREW		1
	20 VJA3016-00C	ROD ANT.	RC-N5A/U	1
	21 SBSF3012Z	SCREW		1
	22 VJC1647-002	R PANEL(L)		1
	22 VJC1647-003	R PANEL		1
	23 VYH6571-001	PLATE	LOWER	1
	24 SDSP2604M	SCREW	RC-N5B/E/G	2
	25 VYH6572-001	SLIDER		2
	27 SDSF3010Z	SCREW		4
	29 VYH3469-001	COVER(L)		1
	30 VYH3470-001	COVER(U)		1
	31 SBSF2612Z	T SCREW	RC-N5B/E/G	1
	32 VJC1648-002	R PANEL(R)		1
	32 VJC1648-003	R PANEL(R)		1
	33 VYH6571-001	PLATE		1
	34 SDSP2604M	SCREW		2
	35 VYH6572-001	SLIDER	RC-N5A/U	2
	37 SDSF3010Z	SCREW		4
	39 SBSF3010Z	SCREW		2
	40 VYTS460-001	TRANS		1
	51 VJC2308-002	REAR CABINET(R)		1
	52 VYH3450-001	SLIDE BAR	LOWER	2
	53 VYH6671-001	BALL		4
	54 VKW3001-082	SPRING		4
	55 VYH6574-001	BRACKET		2
	56 VYH6575-001	BRACKET		2
	57 SBSF3008Z	SCREW	BRACKET	4
	58 SBSF3008Z	SCREW	AMP PCB	2
	59 VXS4259-002	KNOB		1
	60 VJD5095-001	CAP		1
	61 VXS4261-001	KNOB		2
	62 REE3000X	E.RING	REAR PANEL(L,R)	4
	63 VJC1649-002	CEN CAB		1
	64 VYH5601-001	GEAR		1
	65 VYH5602-001	DAMPER HOLDER		1
	66 SBSF3010Z	SCREW		1

⚠ Parts are safety assurance parts.

When replacing those parts, make sure to use the specified one.

▲	REF.	PARTS NO.	PARTS NAME	REMARKS	Q.T.Y
	67	VJD5095-002	CAP		4
	68	VJD5095-002	CAP		4
	69	VXP3225-001	BUTTON	PAUSE	1
	70	VXP3225-001	BUTTON	STOP/EJECT	1
	71	VXP3225-001	BUTTON	FF	1
	72	VXP3225-001	BUTTON	REW	1
	73	VXP3225-001	BUTTON	PLAY	1
	74	VXP3225-001	BUTTON	REC	1
	75	SDST2004Z	SCREW		5
	76	SPST2004Z	SCREW	REC	1
	77	VYH5898-003	REC SPRING		1
	78	SDST2003Z	SCREW		1
	79	SBSF3010Z	SCREW	MECHA	4
	101	VYH2204-001	CHASSIS		1
	102	VYH4585-003	ROLLER		2
	104	VYH4034-001	STUD		2
	106	SBSF3008Z	SCREW		1
	107	VYH3451-001	DIAL DRUM		1
	108	SDSP2610Z	SCREW		1
	109	VHR2TK9-05AT	DIAL CORD		1
	110	VXL4302-001	TUNNING KNOB		1
	112	VJN4119-001	POINTER		1
	113	SBSF3016Z	SCREW	CHASSIS	1
	114	VYH6432-001	CONTACT		3
	115	VYH5092-001	BATTERY CONTACT		3
	116	VYH6431-001	BATTERY SPRING		3
	117	VJD4014-001	RIBON		1
	118	VXS4260-001	KNOB	BAND	1
	119	VJD5095-001	CAP		1
	120	50153-3	SPRING		1
	121	VYSA1R4-056	SPACER		1
	122	VKY4195-003	CASSETTE SPRING		1
	123	VYH5736-003	DOOR SPRING		1
	124	SSSP2604M	SCREW	C.CABI-C.COVER	2
	125	SSSP2604M	SCREW	C.CABI-C.COVER	2
	126	SDSP2604M	SCREW	F.PANEL(L)-R.PANEL	3
	127	SBSF3020Z	SCREW	F.PANEL(L)-R.PANEL	3
	128	SDSP2604M	SCREW	F.PANEL(R)-R.PANEL	3
	129	SBSF3020Z	SCREW		3
	130	VJC3143-001	BATTERY COVER		1
▲	131	VYN5117-003	NAME PLATE	RC-N5B	1
▲	131	VYN5117-002	NAME PLATE	RC-N5E	1
▲	131	VYN5117-004	NAME PLATE	RC-N5U	1
▲	131	VYN5117-006	NAME PLATE	RC-N5G	1
▲	131	VYN5117-007	NAME PLATE	RC-N5A	1
	132	VND4118-005	CAUTION LABEL		1
	133	VYSR107-002	SPACER		2
	134	VYTR434-001	SPACER		1
	135	VYTS463-001	SHEET		1
	136	VYSB1R3-003	SPACER		2
	137	VYSS2R3-011	SPACER		1
	138	VYSB1R3-005	SPACER		1
	139	VKZ4001-007	WIRE CLAMP		1
	140	TJL000420-01	CAUTION LABEL	RC-N5B	1

## 13 Packing

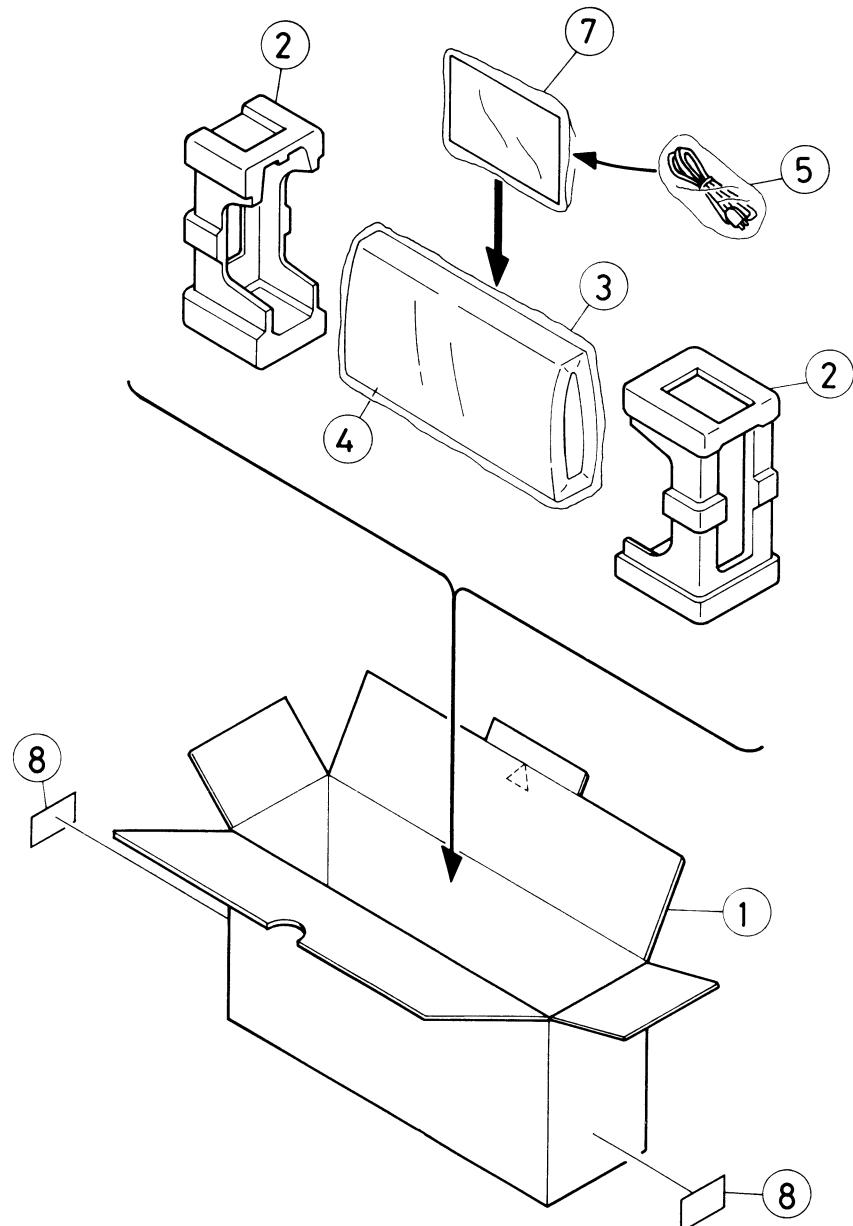


Fig. 13-1

### Packing Parts List

⚠ Parts are safety assurance parts.  
When replacing those parts, make sure to use the specified one.

⚠	Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
	1	VPC5117-001	Carton		1
	2	VPH2324-001	Cushion		1
	3	VPE3005-053	Poly Bag	for Unit	1
	4	VPK4002-022	Sheet	for Unit	1
	5	QPGA012-02505	Poly Bag	for Power Cord	1
	7	VPE3004-007	Poly Bag	for Instruction Book	1
	8	VND3044-004	Serial Ticket		2

## 14 Accessories

 Parts are safety assurance parts.

When replacing those parts, make sure to use the specified one.

⚠	Parts No.	Parts Name	Remarks	Q'ty
	QMP9017-009BS	Power Cord	B version	1
	QMP3950-183	"	E/G version	1
	QMP7350-150	"	U version	1
	QMP2530-183	"	A version	1
	VNN5117-211	Instruction Book	B/E/G version	1
	VNN5117-441	"	E version	1
	VNN5117-801	"	A/U version	1
	BT20060	Warranty Card	B version	1
	BT20066	"	B/G version	1
	BT20065	"	G version	1
	BT20027D	"	A version	1
	BT20098	"	A version	1
	QZL1002-003	Warning Label	B version	1
	V04062-001	Regular Rlag	U version	1
	PU36158	FTZ Infomation Sheet	G version	1
	QZL1002-003	Warning Card	B version	1



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